

SAY GOODBYE TO CP/M

ISSUE 8 - MAY 1987 - 61.25

# LocoScrip

**Exclusive review** 



What's so special about the Mac, the Atari St, The Amiga, Windows and Gem?

It's no surprise that nearly all new 16 bit 'state of the art' micros now come with a Mouse and Wimp environment (Windows. Icons, Menus and Pointers) as standard.

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The AMX Mouse and compatible ' software - it's what you and your AMSTRAD micro have been missing.



AMX MOUSE PACKAGE

3 "

There's not much joy in a joystick and keyboards can be all fingers and thumbs, Acclaimed by the press as 'the best input device', already over 50,000 micro users have adopted an AMX Mouse. No more complicated CP/M commands to remember, with the AMX Mouse you just point and click. even the experts find this system more efficient. Available for the Amstrad PCW 8256 & 8512.

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#### DESK



also includes a number of extra functions which are available for use at all times from the desktop. These include a iotter, alarm clock, calculator. puzzle and control panel - the type of tools found or a real desk top!

The AMX Mouse package

such as centering, justification, cut, copy and paste etc.

STOP PRESS... STOP PRESS.

There will be a growing list of further mouse compatible software for the Amstrad PCW from AMS and other leading software houses in the coming months including Graphic and Desktop publishing programs.

This superb product is available now from all good computer dealers or direct by cheque, Access or Visa. All prices include VAT and post and packaging.

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#### THE LIMERICKS. THE LIMERICKS

As Quasimodo was driven slowly gaga by the incessant ringing of bells, so the entire staff of 8000 Plus have been driven down to the Unicorn by the continuous stream of excruciating Limericks pouring from the lips of vengeful mailpersons as they have the sacks through the door.

We've had many hundreds of

Val Davies, Truro. Peter Hoare, Nottingham. G. Webb, Brighton. A.G. Helyar. Newhaven, Brian Kealy, Ripon. R.L. Webb Bognor Regis. Colin O'Hare, Bridgwater. Rowland Riley, Poole. Steve Goodwin, Flitwick. D.G. Lucas. London SEI Jr. F. Payden.

Carrett



rhymes ranging from the bawdy to

After countless hours of sifting

and re-reading, we cut them down to a short list of about 40, and tried

these out on a hand-picked gaggle

of poets, critics and other drunks.

As a result, the winners are:

M.A.Metcalfe, Boscastle, A.Shawyer, Chertsey, S.Gallagher, Blackburn, R.R.Mayson, Kendal, A.Stredwick,

Wetherby, H.Hutchins, Ickley,

the downright obscene, and have set half of Somerton cringing at the

less worthy attempts.

Each will receive a copy of 'At Last'; well done.

We're sure you'd like to read a selection of the winners (well, not exactly sure, but we don't see why you shouldn't suffer too), so here is a random selection, most of which have the right rhyme pattern, even if the scansion leaves something to be desired. Remember that the only condition was that they had to end with a last.

MAY HAME'S JOYCE

" I GOT HER THROUGH A COMPUTER DATING AGENCY"

Through the pub door a white figure passed And the barmaid screamed out, all aghast. As she clung to Mine Host. He grinned and said, "Chost! His our new stock of spirits, at last!"

A lady with lusts that were vast. Stored gen on the men she'd amassed. Now she uses her Joyce No sort men from the boyce From lists listing lusts in 'At Last'.

There was a young man who did cast His hook in the water too fast. It caught in the knickers Of a friend of the vicar's, Who shouted, "My luck's changed at last!"

# EVERY DAY IN EVERY WAY

Apart from LocoScript, around which the micro was to a large extent designed, software on the PCW has taken advantage of few of its hardware features. Many of the 'hardy annuals' of the CP/M world, while working well and giving valiant service on a 'word processor', are tied to the more normal 80 by 24 screen size, or demand that you learn a complicated set of commands before you can use them in anger. In the last few months, though, it does seem that we're beginning to see a change in the style of program which is being released on the PCW.

It started with games. The clever clogs at the games software houses realised that it really wasn't that difficult to produced detailed graphics on the PCW screen, and even thought it is only monochrome, you could still produce some interesting shading effects which would enhance the game.

More recently, other products have come along which make more of the machine than this. Resident's programs, which hide in the background while you're running other software and only pop up when called by a specific key-press WIMP programs, which allow you to pick options from menus or by moving a pointer to a small diagram of the function on the screen Graphics programs, which allow you to draw on the screen using a mouse or light pen. All these innovations help to make the machine essier and more efficient to use.

It doesn't look to be stopping there, either. Pre-release versions of new software we've seen look like stretching the PCW into new areas, where the usefulness of the machine will be increased still further. Over the coming months you should be able to make more and more productive use of your PCW. Starting that move is the release of the long-wanted to docsfript 2, given its first showing in this issue. Following on from this are a number of other products, still under warps at the moment. It promises to be a bumper summer.

Simon William

#### Point taken

Just in case there are any other readers thinking of sending us gaudily printed letters in 5 hues, we are now aware that HSV Computers can supply coloured ribbons for the PCW printer. We will endeavour to read our own adverts in future.

We don't seem to have offended HSV too much, as theirs was among the many letters received, and they took the opportunity to order a TIPOFFS book (have you got yours yet?).



The JUNE issue of 8000 Plus will be on sale on THURSDAY MAY 14th. Why not place an order with your newsagent?

# HOTSHOT – A SIDEKICK FOR LOCOSCRIPT

With the large number of PCW users out there, news of a new SideKick style desk-top organiser that will work with LocoScript should create a fair amount of interest. A new company is being set up to launch HOTSHOT, a package aimed at organising the life of the dedicated LocoScript user.

For £34.9S it will apparently offer an address book, a diary, a notepad and a calculator. You can access a clock with an alarm and a calendar that we are assured is correct from the date that the Gregorian Calendar was first

introduced It is to have a fast word counter (100 words per second - about 8 seconds to count an average 8000 plus page) and it will have a novel coder that will stop spies reading your confidential files unless they know a password of up to 32 characters. It will even stop you reading the file if you forget your 32 character password

These features are all instantly accessible from LocoScript (you create a new Start of Day disc that loads it automatically when you boot up). It displays on the top four lines of the screen. As both LocoScript and HOTSHOT are on

view at the same time one useful feature is the ability to paste information direct from HOTSHOT into your LocoScript document

This means that you can paste addresses from the address book direct into a letter as a simple form of mail merge or you can put the result of your calculations directly into the right place in your

document. The programmers claim a great deal of flexibility for the package, especially in the sections where data is stored. An estimate of the average data capacity is 200 names and addresses, SO calculator memories, 150 appointments in

the diary and 150 short notes in the notenad

You can allocate space within the 40K of storage space for the features you use most. If you mainly use the address book, you can devote up to 16K of space to it or you can choose to give the extra memory to the notenad, the diary or calculator

Maths brains should be interested in the ability to modify the calculator. If you give the calculator the maximum 16K, you can define up to 500 variables which convert it from a simple four-function facility into a full blown scientific calculator. You can choose an accuracy of up to 10

decimal points

The 40k of data held in drive M: can be saved on your start of day disc when you have finished with LocoScript. The designers have tied HOTSHOT in using standard LocoScript keys, so they claim it should be simple for users to get to grips with

HOTSHOT can be used with the 8256, with LocoScript 1.2 (it uses up 61k in drive M:) although you will need an expanded M drive or an 8S12 if you want to use it with LocoSpell or LocoMail

We are assured it will be ready within the month and hope to carry full details in our next issue.



#### **GUILD OF THIEVES**

Those of you who have been reading the pages of 8000 Plus closely might be expecting an expose of unscrupulous software manufacturers here, but it turns out that Guild of Thieves is the name of Rainbird Software's new adventure game.

It is set in the mystical land of Kernovia (the mystical land created for the Golden Joystick Award winning Pawn game). It is, according to the makers, packed with 'a huge number of complex puzzles and 30 magnificent scenesetting illustrations

The game gives you 'the greatest career move you'll ever make', it seems, by allowing you to join an elite band of professional rapscallions - the Band of Thieves (employees of the Inland Revenue should feel particularly at home).

If you want your wits and ingenuity taxed to the limits by having to find all the treasures on a mysterious island you will probably gladly part with £24.9S for the pleasure. Once you've mastered this one there are another five new products from the same team due to be launched in the next two vears

#### BIT ON THE SIDE?

All users interested in 'A Bit on the Side' obviously have overexpansive computations, for this is the title of a utility from Aware Software of Formby which will print spreadsheets sideways. What do you mean you would never have guessed.

Your spreadsheet can be printed in eight different fonts in four sizes without all that cutting and pasting to produce a lengthy (or is that widthy?) report. It also works with any ASCII file, sideways or normally and includes a disc management file to copy, erase. rename and type files - all for £24.95

#### DON'T COME UNSTUCK

All those users with Sandpiper Accounts, Sandpiper Payroll and Sandpiper File Manager might be interested in sticking them together with a new interface called Glue. This £99.95 facility allows you to pass data back and forward between the three packages, and to import and export it to other software packages. It also has a Calculator.

### IS ANYBODY THERE?

Is your PCW lonely? ASD Engineering have come up with the answer this month by launching Uninet - a low cost, flexible network system that will allow any number of computers to be linked. This means that an office with a number of PCWs, Amstrad PCs or even BBC Micros or Apricots can send files back and forward herween them

And if you invest in one of the company's new 40 Megabyte PCW hard discs, also launched this month, you can link it in with a PCW to act as a central 'file server' for the whole system,

The system acts like an improved version of the Northern Computers Network system - it uses the same custom chip. Northern's system had a dedicated file server with its own in-built computer. The ability to use a PCW for this task when needed (and of course to use it for other

Any number of computers can be linked (at a distance of up to 1 kilometre) using ordinary telephone cable, and using a gateway' you can transmit data via modem to other computers or networks.

The system will cost around £175 per computer (£200 for a system which uses the PCW's serial or parallel ports). The 40 Megabyte hard disk will set you back a further £871+VAT although you could use ASD's 20 Megabyte hard disk at £S99 or even the 10 Megabyte at £449 for this purpose

The 40 Megabyte unit is supplied in a low profile case to fit beneath the computer monitor and connects, via an interface box to the computer expansion port. A specially modified version of CP/M Plus and LocoScript are provided with the unit which allows them to handle large hard disks ('regular purposes when it is not needed) LocoScript can only handle disks of makes for a more cost-effective set up to 4 Megabyte).

6 8000 PLUS

#### VIDLON THE VIDEO

Tired of looking at boring old words and figures on your green screen? Try the new Rombo Video Digitiser, snatch a picture from your video, store it in your PCW and print it out on your faithful old printer? You can then write all over it with boring old words and

The £99.95 digitiser is a neat white box that fits into the expansion port at the back of your PCW. This links into your video recorder or video camera and you can then see a series of pictures flashing up on the screen of your PCW. You have control over brightness and contrast and at the correct moment you 'grab' the particular image you want. This can be made up of two shades (black and green) four shades (black and three shades of green),or a very complex 16 shades (black and fifteen shades of green).

Once you've captured the image, you can specify the size of a window to work on and you can move the window about the screen. We are told you can even touch up pixels if it gives you pleasure. You can then save these works of art on disc – each full screen taking up about 22k of space - or print them out. More fun than a spreadsheet – eh?



#### HOLD THE FRONT PAGE

As the 8000 Plus editorial team battled wearily to this month's deadline, into the office breezed Mirrorsoft's marketing whizz, Pat Bitton, with a copy of Fleet Street Editor Plus under her arm. Nothing seems to fascinate hoary old journalists (especially hoary old

> Street Editor Plus on the PC# 8256 8512

program that allows you to make up pages - even if they have just spent the last week or two doing nothing but making up pages.

Mirrorsoft have been selling Fleet Street Editors for other micros for some time but the Plus in the title reflects the added

(as with the magazine of a similar

As a gauge of how sophisticated the program is, it virtually fills both sides of a three inch disc. Once loaded, it gives you a remarkable amount of control over each stage of building up a multi-page

collection of 'clip art'-illustrations that can be mixed in with the text. and there are a variety of type faces and sizes available.

The program is due on sale by now at £69.95. See next month's issue for a full review.



#### A STAR PRINTER IS BORN

Star Micronics UK Ltd has launched a new £589 dot-matrix printer – the NR-15. It offers improved performance on Star's NX-15 with 240 c.p.s. in draft and 60 c.p.s. in near letter quality. The makers claim real simplicity with touch-sensitive controls for all major functions. These allow you to choose print mode, pitch settings.

form length, and margin settings. It has both tractor feed and semi-automatic sheet feed as standard, with a low cost cut-sheet feeder also available. It comes with Star's standard slot-in interface system that matches the printer to the computer. Bet there isn't a PCW version.



#### **COMPETITION FOR 8000 PLUS?**

Perhaps it's the bracing West Charles here laurer air, but a new publication has been launched from Seaton in Devon to compete with 8000 Plus for the title. Best publication on the Amstrad PCW West of Yeovil. PCW File is not really a glossy competitor for 8000 Plus, but a non-profit making periodical aimed at enthussats.

Chris Bryant, the editor, is alming at producing a forum where users can share experiences, write articles, hints and tips and help users if they get stuck on a problem. The subscription fee is 5 for six issues which are to appear at about two monthly intervals. They are aiming at around 32 pages per issue, depending on contributions.

They have a small amount of Public Domain software which is free to subscribers (with a stamped addressed envelope and a



formatted disc). Non-subscribers will have to pay £2 per side extra as a copying fee.

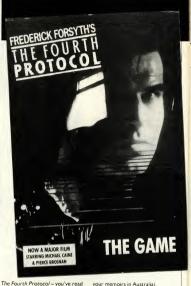
Anyone interested can receive a sample copy by sending a SAE to Chris Bryant, 11 Havenview Road, Seaton, Devon EX12 2PF

#### ANONYMOUS MUD-SLINGERS

One interesting piece of information that came into the office this month was a letter, neatly printed and very official looking, informing us that a certain software company was pulling out of the British market due to poor sales.

It was a good story only spoilt by one vital fact. The company concerned are doing better than ever and have no intention of going anywhere. So we scrapped the story and decided to run a little piece on the strange letters we get at 8000 Plus.

#### TURN YOUR PCW INTO AN ATOM BOMB



The Fourth Protocol – you've read the book, you've seen the film, now play the game. To coincide with the launch of the film of Frederick Forsyth's novel, Ariolasoft have launched their new game full of the fun to be had in British counter-intelligence.

Your task is to stop a group of Russian agents assembling and detonating a nuclear device in a basement bedsit. To do this you pay £15.99 and become John Preston of MIS (if you complete the game you can go on to publish

To make it slightly more interesting there is a book of instructions that looks slightly longer and considerably more complicated than the original novel. The main purpose of this seems to be to tell you what to ob (you're stuck. No peeking now—that's cheating. Oh, by the way if you don't beat this ingenious game we're told your PCW explodes and demolishes everything within 10 miles. Adds a certain urgency to the game.

#### DOWNRIGHT CHEEK DEPARTMENT

Among the entries to our At Last limerick competition was one from surprising source, and with surprising sauce. Campbell Software (publishers of the rival Masterfile 8000), sent the following entry:

It is truly the star of the cast. It's performance is quite unsurpassed. For power that is faster You have to choose MASTER FILE 8000 at last.

Bit of trouble with the last line there fellers?



### Attention all PCW8256/8512 users

Buy over £50 worth from this list, and get a FREE Word Plus™ spell corrector/proof reader/ crossword and scrabble solver, worth £24.95. (NewWord purchasers get a free copy of Companion as Word Plus is bundled!)

#### Cracker2-PCW

The hi-res graphics spreadsheet Why settle for a text-only spreadsheet when the best costs less? Cracker2 is the ultimate CPM80 spreadsheet, with functions, features and facilities to tackle the most complex financial, mathematical and scientific tasks. File and command compatible with the PC version. £49 inc.

#### NewWord2-PCW

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# dBASE2-PCW

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# PUTTING IT ON THE LINE

ne of the biggest growth areas in computer usage these days is telecommunications, or comms for short — communicating with other people via your computer. With a bit of extra hardware, the appropriate software, and a telephone line, you and your PCW can send messages to anyone else with similar equipment, and access many on-line databases and services.

#### What is a modem?

The signals given out by your PCW are not the same as those on the telephone network. A modem converts or modulates signals from your PCW (coming via the RS323 socket of Amstrad's CPS8256 interface) into the levels carried on telephone lines: It also works the other way for signals coming in - they are converted from telephone system voltages to RS221 levels. This process is 'demodulation'. The modem gets its name from the first three letters of each word.

Most modems today, including all those covered by this rictle, are 'direct connect' modems. This means they plug into the new-style British Telecom jack sockets (if these aren't fitted in your house, you'll need to contact BT about them).

To go 'on-line', you type a command on the PCW keyboard and the modem takes over the line and dials the number of the service to which you want to connect. You can't use your telephone while the computer and modem are using it.

Anything typed at the PCW keyboard will be sent down the telephone line and appear on a computer somewhere else. While you are using the modern, you incur normal phone charges, and you can connect to anywhere the phone system will reach.

#### Electronic Mail

Electronic mail, or Email, is what most business people by modems for. This is the way it works. Various companies and some individuals provide a host computer and sell accounts. When you subscribe, you are allocated an account number and told the telephone number of the computer. You then dial the computer and connect your modem. The host computer sand text direct to your screen, announcing itself, and asking for your account number and oassword.

To send a message you type something like SEND, the host computer asks you for the name, or perhaps the account number, of the recipient (another user of the same service). You then receive a prompt to type in the text of your message, which you finish with a special character, which varies from system to system. The next time your recipient logs on to the same computer, he will find the message when he selects READ.

In essence, that's Email. In practice most systems offer other features such as copying a message to several people, or even to all callers, and confirmation that your message has been received. Telecom Gold allows you to put your message at the top of the recipients pile

(although if everyone used this, it would lose its effect), and to attach an incoming message to an outgoing one - if A has written to you, you can add your comments and send it to B.

Most terminal software also provides extra features. The main two are uploading and downloading. You would not normally want to compose anything more than a brief note whilst on-line i.e connected to the phone, because of course you are clocking up telephone charges. The normal procedure is to write you message or messages in LocoScript, and save them to disc or RAM disc before connecting to the phone.

When on-line, most terminal software offers you the option to send a previously prepared message from disc. You proceed to the point where you would start typing a message, press the 'send disc file' key, and give he filename. Press [RETURN] and the disc file 'types' itself into the host computer. This method has the added advantage of providing a copy of the message. The process is known as 'uploading'.

Downloading is the reverse process. As well as receiving the message on screen, you direct it to a named disc file, to read or print out later.

Email can be a very cost effective method of communicating with people. The major systems usually charge at local call rates, and it only takes a few minutes to send even quite long messages. Unlike the post, Email communication is instant, and unlike phone calls the other person need not be there.



The big snag is that you can only talk to other people on the same system. Prestel and Telecom Gold claim 60,000 and 41,000 subscribers respectively. The other systems figures are not available but are smaller. However, if you are communicating with a small group-your customers, a known group of colleagues etc, then this doesn't matter.

#### Prestel

Prestel is a large public database run by British Telecom. Prestel screen displays are different from most other systems, looking more like the teletext displays of CEEFAX and ORACLE on television than the normal 80column scrolling computer display.

Prestel has large sections devoted to certain areas of business. A huge section is given over to the travel trade, who use it extensively for booking work, and there are sections devoted to farming, law, medicine and so on. There is also a lot of useful public information such as train times, information about various UK towns and cities, foreign countries and so counties.

If you are interested in the PCW as a computer, there is a microcomputer magazine called Micronet. Within this there are two sections called Amsnet and Amsters Cage devoted to the Amstrad range, including the PCW 8256/8512. Some of the features are a bit on the technical side which may or may not be to your taste. Also on Prestel is the much advertised Bank of Scotland Home and Office Banking system (HOBS). With this you

can move money around, pay your credit transfer bills, and generally do most things except getting cash.

Note that on top of the standing subscription to Prestel, there are additional charges for services such as Farmlink, HOBS and Micronet. These may be levied in the form of chargeable frames - some of the pages you look at on Prestel have a price in the top corner of between I and 99 pence. (You always get a warning of these on the menu frames). More often the charge is made by setting up a Closed User Group (CUG) where you pay anything between £20 and £1000 a year to be a member.

The main reason why Prestel is different from the other services is that about half the users (according to unofficial reckoning) are non-business users. Contact with other home users can be great fun, especially if you're housebound. When you're no a bulletin board, all that matters is that you have something to say - not that you are elderly (absided is they own thatever.

Messaging on Prestel is done in Viewdata frames (serenfuls) which only carry about 150 words. The multiple send feature is messy, the store is very limited (6 messages) and there are no acknowledge or attach facilities. It is only really good for short notes.

Prestel does offer a Telex facility, but this is done through the messaging system, and is cumbersome to use. The other snag with messaging on Prestel is that, at the moment, it only runs at 1200/75 baud (although this may soon change). Although receiving messages at 1200

numbers and so on are the same. The difference is that Microlink doesn't appear to cost anything extra. If you join Microlink, you join Telecom Gold as well, and it would appear that you can access everything on Telecom Gold.

The extras available to Microlink are a computer news

The extras available to Microlink are a computer news section, telesoftware (listings you can download into your computer) and a bulletin board, which includes a well-used Amstrad section. Microlink is run by Database Publications, who publish a number of Amstrad angazines (Really' – Ed), and the news and telesoftware is culled from their printed output.

Telecom Gold offers either 'club' or 'corporate' membership – individuals effectively join as clubs. Microlink's application form only offers individual membership.

#### Other services

One-to-One and Easylink are competitors to Telecom Gold. They offer the same sort of messaging facilities as Telecom Gold or Phicrolink, but not much else. I didn't have a chance to log on to these two services, but from their publicity information. One-to-One's special features are free time for the first 30 seconds (good for a quick mail check), free incoming telexes, and a printing service – they will type out your message and send it as a courier letter.

Easylink offers the Email and telex facilities, and a few specialist services but little else in the way of features. It does however have it's own local call access system, avoiding PSS charges (see box).

#### **Bulletin boards**

With the spread of cheap computers and auto-answer modems, many computer enthusiasts have set up their own miniature versions of Prestel and Telecom Gold. These private services are known as bulletin boards.

They are usually run on a single telephone line, and some are not 24 hour services as their operators are sharing the line with the rest of their families! The quality and scope of these boards varies, depending on the skill and enthusiasm of the system operator ('sysop' for short).



baud is acceptable, sending them at 75 baud is excruciatingly slow.

#### Telecom Gold

This is primarily a business service offering quite sophisticated messaging, and a lot of business conditionation. Unlike Prestal, the messages can be of any length and will retain their format, so for instance, uso can send tables that come out aligned. An interesting feature is that flyou carry a BT Radiopager, you can be paged whenever there is a message waiting in your mailbox.

Telecom Gold allows you to send messages in other ways. The most important business use is probably Telex. Many people use Telecom Gold just for this. See the list for charges involved when using Telex. You can also send Telemessages (the modern equivalent of Telegrams).

There are a number of databases on Telecom Gold. There is the Official Airline Guide (OAG), a comprehensive list of current scheduled flights from UK airports, the entire UK train timetable, booking facilities for theatre tickets and other commodities. There is an on-line personal diary system, a spelling checker and live chat facilities, where you can 'talk' to another user who is also logged on.

#### Microlink

Microlink is a section of Telecom Gold, in the same way that Micronet is a section of Prestel. The telephone

#### Baud rates

Baud rates are a measure of how fast data is being sent down the phone lines If you divide the quoted rates by 8, you will get the number of characters per second. The CPS8256 will support many baud rates, but the only ones used with modems are:

300/300 baud also called V21 1200/75 baud also called V23 1200/1200 baud also called V22 2400/2400 baud also called V22bis. The first number is the speed data is received, the second is the speed it is transmitted. The moderns covered here will only work at the first two speeds, but virtually all on-line systems in the UK use these speeds. Prestle all Viewdata systems is V23 only. The other commercial services listed operate at both speeds. 1200/75 is better if you are adoing a lot of sending – 75 band is verying, but of sending – 150 band is very solven.

Most offer Email, public domain software for' downloading, and some news items. Some offer on-line games and other special features. By and large they are totally free to use, and when using them you should always remember that someone is running the service purely for love. Be polite, leave thank you messages, and if you can contribute to the board, do so.

Many boards have special interest groups, although these are mainly categorised by microcomputer type. However there are some boards totally dedicated to particular topics, such as science fiction, photography, or religion.

Bulletin boards work in a similar manner to the big system. You log on, type your name and password, and work through menus to find what you want. The free systems set up your password the first time you log-on.

#### ONTEST

Now you know what you're missing, you'll probably want to get online as soon as possible. As well as your Prestel or Telecom Gold account, though, you'll need a modem and software to manage it and the telephone line. Here are some recent releases, designed for use with the PCW.



DILICES

# MIRACLE TECHNOLOGY WS4000 (PCW version)

Miracle Technology Ltd • 0473 50304 • £195.45

This modem has one major advantage over others reviewed here. With the W\$4000 you don't need a CP\$8256 interface, which represents a saving of £70. The modem works by having it's own built-in serial interface.

MINUSES

can't use the modem's serial interface with other computers - an important point if, say, you plan to upgrade to a PC. However, the connection is entirely standard, and you can use any suitable software with the WS4000. There is a version of the WS4000 produced for other computers which can of course be used with a CPS8256. This 'standard' WS4000 is about 130 cheaper, so if you need the CPS for other reasons, that's the one toget.

The WS4000 works at V2I and V23 speeds only.

You simply plug its cable into the back of your PCW. You

per forms auto-dial, auto-answer, and responds to the standard Hayes command set. It will store up to sixty numbers internally, although this is only necessary if your software doesn't have a directory feature. For advanced users, there are many auto-answer options, together with timing and other controls. The manual is a 95-page spiral-bound document which covers the entire Miracle intelligent modern range, including the upmarket W\$3000, which costs over £700 with all options.

#### Verdict

In summary, this modem is as good as the Pace Linnet, and better than the other two reviewed here. Whether you buy the Linnet or W784000 depends on your need for the CP58256, and whether you prefer Dialup or Chit-Chat.

# E No CPS3256 required Hayes commands supported Mell made unit Good, detailed manual RANGE OFFEATURES RANGE OFFEATURES RANGE OF SUSE RANGE OF

#### ASTRACOM 1000 and KIWICHAT Astracom • 0792 473697 • £212.75

This intelligent modem is different from the other three reviewed here, as it isn't Hayes compatible. The modem must therefore be run with Kiwichat, the supplied software, if auto-dialling and other intelligent features are to be supported. Technical experts could write their own driver in Chit-Chat.

Astracom are producing a Hayes compatible version of their modem, which should be available by the time you read this. The modem should then be usable with other software, if you want.

The modem is much like the others in terms of features. It is a Y21/V23 model. There is a 751/200 baud mode, allowing the modem to be connected to 120075 services. The modem will auto-dial, and auto-answer, and allow control of attributes from the computer; It has an 'equalisation' feature which can be used to improve communications on noisy telephone lines.

One extra that the Astracom has over the other modems is a printer port, to which extra passing through the modem can be sent. Unfortunately, it's a Centronics printer port, so it is probably not a lot of use to PCW owners. The Astracom manual supplied was marked provisional and consisted of 14 photocopied pages. All the modem commands are covered, but you don't need to know them if you're using Kiwichat. One important point about the Astracom - unlike the others it does not yet have BABT approval. Without this, it cannot be recommended.

MINUSES

Not BABT approved

Poor documentation

Less robust casing

#### Kiwichat software

This program is supplied with the Astracom 1000, and is not available separately Viewdata and scrolling (Email) modes are supported. The latter is known as VT52' mode as it behaves in the same way as popular computer terminal of that name. All the usual features are offered, and this one does support XMODEM transfers!



The Prestel section is also good, and contains all the necessity page storing and uploading features. It offers an interesting feature where two Prestel screens can be shown at once, using normal narrow characters instead of the wider ones in the 40-column emulation. Kiwichat has a separate installation program which permanently configures various things such as passwords and telephone number.

Kiwichat has a separate manual which is PCW specific. This manual as supplied was also a few sheets stapled together, and was rather thin on explanation. B pages isn't really enough to cover all the features of this software, although you can probably get by from onscreen instructions, if you understand the services you are using. A new manual is due for release when Astracom receive BABT apported.

#### Verdict

Assuming Astracom get BABT approval, this modem and software peakage make a reasonable combination if you already have the CP58256 and a limited budget. However, there is nothing to particular commend this system over the others, and a thin manual, and non-Hayes command set are minus points. It works out about £15 cheaper than the Rate Linner plus Sage software.

# BABT approval Anything you attach to the phone system must be

phone system must be approved by the British Approvals Board for Telecommunications, otherwise BT may disconnect your line. All approved items carry a 'green circle', while unapproved items must carry a 'red triangle'.

'green circle', while unapproved items must carry a 'red triangle'.

EASE OF USE

PLUSES
| Just about the cheapest (if you have a CPS8256)
| Centronics printer port

RANGE OF FEATURES

FEATURES PERFORMANCE SEE PERFORMANCE SEE PROPERTY DOCUMENTATION SEEDED PERFORMANCE SEEDED

#### TANDATA TM500 Tandata Marketing ● 0684 892421

This modem is a fairly basic intelligent modem, with autodialling, band rate selection (V21 and V23 only) and result detection ie it can distinguish between engaged, no answer, and number unobtainable. It uses the Haves command set for auto-dialling and baud rates (with a special extension for 1200/75 baud), and worked well with both of the software packages reviewed. As it doesn't have auto-answer, it is not suitable for bulletin boards. The manual supplied is brief, but does contain a useful glossary of comms terms.

The modern is a small plastic box about the same size as a thick paperback book, and has an on/off switch on the front. A nice touch is that they have supplied a plug on

the mains cable. Tandata have been making modems for a number of years, and I have used another model, the TM512 for over a year now without any problems. I expect that this one will be just as reliable. I rang the Tandata help desk in the course of preparing this review and found them to be knowledgeable and helpful.



ONTEST

PLUSES  Hayes command compati Fitted mains plug	ble	MINUSES  ☐ No auto answer ☐ No number store ☐ Limited manual						
RANGE OF FEATURES EASE OF USE 8000 PLUS	100	PERFORMANCE DOCUMENTATION VERDICT						

Physically, the Linnet is very similar to the Tandata. It doesn't have an internal power supply, but has one of those transformers built into the plug, feeding low voltage into the back of the modem. One criticism I have of the Linnet is that it doesn't have an on/off switch - you have to unplug it at the back or at the wall. I'd say this was a better buy than the TM500, but look at the prices a lot depends on what combination of software and modem you choose.



Telecom Gold -

£40.00/£300.00 pa for

private/business users. Ring

One-to-One - £\$0.00 registration. Calls free for

30secs, then 10p per min. Ring 01 3S1 2468 for

registration. Standing charge 12.9S per month.

Calls at 10p per min.

Easylink - £40.00

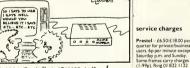
PLUSES MINUSES Automatic baud rate detection Phone number store PERFORMANCE RANGE OF FEATURES EASE OF USE DOCUMENTATION 8000 PLUS VALUE VERDICT BEER

# Gamet

" I SEEM TO HAVE A CROSSED LINE ... " software, you can't copy the cable. This software is £89.95, again a bit pricey. Once again there is a modem deal which improves the price.

#### Verdict

Dialup is very easy to use. The comprehensive file transfer facilities make it the best choice for those needing this feature. As this package is available on other micros (and PMS claim that it looks very similar in all its versions), it is well suited to a mixed micro environment. If you want to use comms in many different ways, get this package. Both companies offer a helpline service. The PMS one is free forever, the Sage one for 90 days, then



#### you have to pay. MINUSES PLUSES Comprehensive file transfer Multi-micro manual Pricey Easy to install Runs from the M drive PERFORMANCE DOCUMENTATION RANGE OF FEATURES EASE OF USE 8000 PLUS VALUE VERDICT BEE

£159.85 This modem is also a V21/V23 only model, but has a few more features than the Tandata. It will auto-dial and auto-answer, again using the Hayes commands, and has a built-in number store for automatic dialling - although

you won't need this if you are using either of the software packages reviewed.

PACE LINNET MODEM

The Linnet also has automatic speed detection of the service being called, as long as it's either V21 or V23. That's a very nice feature if you don't have a directory on your software, but again, it isn't as important if you do. However, this feature and the auto-answer make it a good choice for running bulletin boards. The manual is a 56-page detailed document, much of it highly technical, but it does cover everything the modem can do in great detail

#### DIALUP PERSONAL PMS Communications Ltd • 021 643 7688 • £89.99

This package offers very similar features to Chit-Chat. Again scrolling and viewdata systems are supported, the scrolling section saves text to disc, prints it out, and will transmit text from disc. The Viewdata section stores and prints frames in a similar manner.

Both packages also allow the manipulation of text and Viewdata frames while off-line. Dialup's directory isn't as daunting as the Chit-Chat version when it come to editing. Unlike Chit-Chat, the package also supports other formats, such as Times Network and Dialink, their own proprietary service, which are a mixture of scrolling and Viewdata. The Viewdata implementation is very similar to the Chit-Chat one

Where Dialup scores in that it is supports file transfer. The scrolling section supports the XMODEM system, used by virtually all bulletin boards, and also a new improved transfer system known as KERMIT, which is starting to appear on many services. In Viewdata mode, the standard file transfer system is the CET Protocol, and this is also supported.

PMS have decided to produce one manual for the entire range of computers for which the software is produced. As a result large sections of the manual are concerned with the differences between various computers, and even worse there are a lot of references to 5' discs, [ESCAPE] and other non-PCW points.

The Dialup software can't run with a standard RS232 cable - you have to use their cable which contains a 'dongle' - an anti-piracy device. Even if you copy the

#### SAGE CHIT-CHAT COMBO Sagesoft plc ● 091 284 7077 ● £99.99

This is a general purpose package which will work with Viewdata services such as Preset, and ordinary scrolling or ASCII services such as Telecom Gold and One-to-One. This covers 99% of services. The Combo package is a combination of two other Sage packages, Chit-Chat Email and Chit-Chat Viewdata. These are quite separate in the way they operate, but they share some common facilities.

#### Yellow pages?

The software is primarily designed to be used with

Roard Number Baud rate **CBBS London West** 0895 420164 300.1200/75 Computers for Christ Healthdata 0395 272611 01-084 4340 1200/75 Viewdata 0483 573337 300,1200/75 Dental Board 0227 276 162 The Gnome at Home 01-888 8894 1200/75 Viewdata

intelligent modems; those with auto-dial and baud rate switching under computer control. A directory of numbers is supplied on disc, containing all the major services, and a good list of bulletin boards.

You select a service off a LocoScript-style menu. Chit-Chat then dials the service, and connects you. Each telephone directory entry can be edited to ensure that the baud rate, screen format and so on are right. Also most services will involve typing a password and identity, and these can be entered in the directory as well. The manual quiter rightly warns that it is not a good idea to enter your password into Chit-Chat, in case someone eles uses your PCW.

#### Scrolling service software

This part of the package is sold separately as Chit-Chat Fmail. There aren't actually many features needed in an Email package, and Sage have included the essential ones (bar one). The program stores incoming text to disc, prints it out, and can transmit text from a disc file. It also lets you view a disc directory while you're on-line. All these functions work well, and are all you really need for electronic mail. The missing item is file transfer.

If you want to transfer Locoscript files, programs, or anything else other than a plain ASCII format text file, you need special file transfer routines in your comms software. For example, a lot of the free software on bulletin boards can only be obtained using a file transfer facility called XMODEM, which most scrolling software packages provide.

#### Viewdata software

Viewdata is a problem on the PCW as the format is really designed for colour systems. Chit-Chat's emulation is quite good. but no attempt has been made to suggest colour by shading, and some graphics frames don't make a lot of sense. The same features as in the scrolling software - print, save frames to disc, and send text to Prestel mailboxes, are provided. Once again though, there is no facility for Viewdata software downloading, which may rule the package out for some people.

#### Bits and bobs

Also provided with the pack is a text editor to prepare messages. You can of course use LocoScript (1.20 or later), but using the text editor means you don't have to leave the program. This is quite usable, and heavy Email users will appreciate being able to alter text files without leaving Chit-Chat.

A novel feature of the program is a 'task' facility. You can create task files which will automate the communications process. For example you can define a task to wait until midnight, log-on to Prestel, collect your mail and save it, log-off, log-on to Testel come Gold, collect mail from there and log-off, all without you touching the keyboard. There is also on-line help at all stages of the program, telling you what each facility does.

#### Manual

The manual is 112 pages long and contains lots of help in using the services, with actual examples of sending and receiving Telecom Gold mail. It covers everything a beginner would need to know, but experienced users might find it a bit difficult to locate what they want quickly. Such users should use the on-line help facility.

#### Verdict

This is a good pack for business users. The beginner's manual and user-friendliness of the software make it trouble-free if you don't want to be an expert. The price of £99.00 is a bit on the steep side, but if you buy it which modern, it looks a lot better. However, the lack of file transfer facilities mean it can't be recommended for the enthusiast.

## JARGON BUSTER

ACOUSTIC COUPLER – a low cost and portable type of modem which has two rubber cups into which you push a telephone handset.

AUTO-ANSWER – a feature of a modem which means it will respond to someone calling you, and connect them to your computer.

AUTO-DIAL – a feature of a modem which means it will dial a host computer using a number supplied from your computer, without you having to dial manually.

BULLETIN BOARD – a small-scale messaging

BULLETIN BOARD - a small-scale messa service, normally provided by a private individual.

DATABASE – in comms, this means the static information, as opposed to messages, held on a host computer (timetables and the like). ELECTRONIC MAIL – also called Email. Messages and letters send to other people using computers and the telephone system.

telephone system.
HAYES – A standard for modem
control, named after the company that

HOST – A large computer
which provides the information, stores
and transmits the messages, and
usually receives the calls on a service
such as Prestel or Telecom

Gold.
INTELLIGENT MODEM – A modem
with auto-dial and auto-baud rate

selection is usually referred to as 'intelligent'.

LINE NOISE – The crackle and hiss that appears on phone lines, manifesting itself as unwanted characters on a computer screen. LOG-ON – or logging on. The act of dialling the remote computer, connecting the modem to it and typing in your perspend.

dialling the remote computer, connecting the modem to it and typing in your password.

MODEM – a hardware device which 'modulates' computer signals into the electrical equivalent of audio tones,

and 'demodulates' them back again. PSS — Packet Switched Scream. A British Telecom Service to allow access to remote computers at local call rates. Telecom Gold, Microlink and One-to-One use the system outside London. This adds to the cost of using these services, but is still cheaper than a long distance call.

SYSOP – SYStem OPerator. A person who runs a bulletin board. TERMINAL - the opposite to Host. The computer which accesses the host. For you, the term refers to your PCW.

VIEWDATA - a type of computer display based on 'frames' of 24 lines of 40 characters. Some characters can be block graphics. Viewdata displays are normally in colour, but obviously not on the PCW!

#### PLUSES

EMail tips in the manual
Easy to Install

Free registration to Microlink/One to One

#### MINUSES

Pricey No file transfer

RANGE OF FEATURES EASE OF USE

PERFORMANCE DOCUMENTATION

8000 PLUS VALUE VERDICT

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# THE WISDOM OF SOLOMON

#### THE SOFTWARE BUSINESS £5.50 ● Meyer Solomon ● BBC Publications

When you look around at the variety of software packages on sale, it's very tempting to think, "I could do that!" With software going for between £15 and £100, it seems that if you can write a good program in your spare time which might sell a few hundred copies, then you could potentially make several thousand pounds, Great! Resign your job today, go freelance, your fortune is assured but don't sell the texame.

Meyer Solomon is Software Editor for BBC Publications. His job is to evaluate software and books from hopeful writers, knock them into shape for publication and negotiate terms with the authors. Using his experience in these areas, he has written 'The Software Business', a guide giving do's and don's to help you, but also to make you think carefully about what you are doing and your prospects for success or fallow.

The book is a brave attempt to provide some genuinely helpful and useful information. It succeeds in parts, but when it comes down to it, guidelines on "How To Succeed" are necessarily a little fatuous. There was a Monty Python sketch which went something like: "And now, how to win a Nobel Prize for medicine. First you learn all about medicine. The become a doctor and cure

all of the world's diseases.' That about sums it up.

However, if the first half of the book is full of comments like 'make sure there is a market for your idea' and 'think carefully,' the second half perks up a lot. Solomon covers the mechanics of approaching publishers once you have written a demonstratable program, what they will expect of you and what you can expect of them.

There is a whole wealth of information packed into the last 50 pages, full of names, addresses, prices and facts. Everything from how to get ISBN numbers for books you publish, to a sample contract of the kind you would get as a first time writer. The information covers both programming and technical book writing.

There is advice on how to write adverts, how to get magazines to plug your product (tip: always send a photograph, preferably as both black -and-white print and colour slide) and what to do if you get a bad review, or worse still an unfair review.

What it comes down to is that having a good idea is something that no-one can teach you to do. The Software Business' tries to teach you and falls. However, taking your idea and marketing yourself to a publisher is something you can learn, and you will find much useful help in this book.



The Software Business
ISBN 0 563 21141 5
8000 PLUS VALUE VERDICT

## POCKET WORDSTAR £7.50 ● Ian Sinclair ● Glentop

Ian Sinclair is to computer books what Barbara Cartland is to romantic fiction – both churn 'em out at one a month, and all their titles sell pretty reliably.

There are differences of course, Barbara Cartland probably isn't much cop at CP/M for one, and not many of lan Sinclair's characters gaze lovingly into their disc drives and swoon. Usually, Ian sinclair's books are a model of clarity, among the best for beginners.

This book is aimed specifically at PCW owners, which is what separates it from other WordStar tutorials. WordStar is famed for using obscure command keys, but on the PCW the range of extra keys on the keyboard allows you to use them instead.

It has to be said that this is one of Sinclair's less distinguished books. He doesn't seem quite sure who the reader is most PCW owners who haven't used WordStar before (i.e., who will buy a tutorial book) will have used LocoScript for a while, and therefore will know the basics of how to use the machine. The first page of the book tells you how to plug the three parts of your PCW together (which assumes a total novice), and by page 13 you are deep into altering the margins in rulers and configuring your printer options (which assumes a large previous experience of wordprocessing).

There are a distressing number of little errors and misprints that do not inspire confidence in the author. Sinclair believes the 8256's rear expansion port is for attaching a second disc drive. One

port is for attaching a second disc drive. One section states it is about to discuss the X and Y commands, and goes on to discuss the X and R commands. Trivial, but irritating.

There is not a single screen shot in the entire book, which is criminal - you can't compare the book examples with what you see on your screen. No mention is made to NewWord, the WordStar workalike which has outsold WordStar on the PCWs. NewWord is almost identical to WordStar but has several important differences – there should have at least been an appendix.

The MicroPro WordStar manual is generally one of the better examples of technical writing to be found. To be honest, you would be better off reading that, together with the PCW-specific addendum that your dealer will inevitably give you when you buy WordStar.



Pocket WordStar
ISBN 1-85181-083-8
8000 PLUS VALUE VERDICT

# THE MOUSE NDS A HOME

AMX MOUSE & DESKTOP £79.95 • Advanced Memory Systems • 0925 413501

Is a 'mouse' a real breakthrough for the PCW or is it a rather extravagant extra to clutter up your desk. This month Advanced Memory Systems launch the AMX desk top package, where the mouse can at last show its paces in the proper 'WIMP' environment. Alec Rae decides whether it could prove a useful pet for the PCWuser.

> Desk top packages are commodities that always sound good in the adverts. In the world of the 'paperless office' it seems almost blasphemy still to be taking notes on the back of used envelopes or looking up a phone number in a dog-eared address book. But often the practicalities of the average desk top package makes it too bothersome to use regularly

> The new AMX package goes a long way to overcome these problems and presents its services in such a way as to make them attractive and easy to use. The package is an 'organiser' like the Gem desk top for the PC and is a reasonable facsimile of the famous Apple Macintosh set-

For those who are wary of using CP/M it allows you to move, copy and erase files and run programs without even bothering about whether it is PIPM: = A: or A: = M: It has a diary, telephone book and a note pad that are real practical propositions and it allows you to create any number of memos (now that is real organisation). You have a clock with an alarm, a calculator that works well and even a puzzle that is annoying enough to keep you going for days. All this without touching your keyboard in a genuine WIMP environment

Great ingenuity goes into the design of the screen icons, as if it was a serious possibility that a large number



of dyslexic people would go out and buy word processors. When you are given the choice of keyboard repeat rate. Desktop shows a snail (for slowness) at one end of the scale and a car (for speed) at the other.

You can view the directory on any drive either in boring old text or by Icon. Program files are shown by a little picture of a screen while the text file icon has writing on the front. Most interesting are Mallard Basic files which are each depicted by a little Locomotive.

#### File it in the bin

Once you display this directory, the world is your oyster. You can 'drag' files around by putting the pointer onto the file, pressing the operating button and pulling the file to the correct place. You can erase files by dragging them to a little bin icon, and move files to the M drive or B drive by dragging them to the appropriate disc icon.

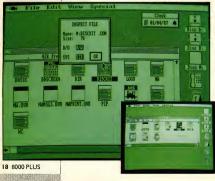
You can also run a program from any drive by clicking on its icon. Desktop doesn't affect any key assignments you've made with SETKEYS, so you can safely leave your word-processing program in drive M and call it up when you need it.

Desktop takes over 80K of your M drive, an important consideration for 8256 users, but as it carries out all the functions of PIP.COM, DIR.COM and SHOW.COM you don't need these utilities cluttering up the drive.

#### Here we are again

The neat part of Desktop is that when you leave your chosen program you are automatically taken back to AMX Desk Top, loaded from your M drive. This overcomes the basic problem with 'organisers' remembering to use them. You still need the AMX disc in the A drive when you want information from your diary or telephone book, but it is still easier and more convenient than many of its competitors. When you eventually leave Desktop you are asked if you want to retain any diary or phone book changes and, if so, you have to replace your Desk Top disk for updating. This automatic linking back to the AMX program can

cause a few minor problems. Should you try to run a text file, the program thoughtfully informs you that you cannot open it (you can only run applications like Disckit, WordStar or SuperCalc). You can, however, print it or 'type' it – display it on the screen as with the TYPE command in CP/M. It does this easily but then immediately returns you to the desk top before you have a chance to read it, unless you are quick to press [PTR].



WIMP

as everyone probably knows by now, stands for Windows, Icons, Menus and Pointer. A WIMP environment is either a program that uses these devices or the dressing room for the Mr Punyverse Competition.

You can't use the pull down menus from within other programs, but this is often a rather unsuccessful facility in other desk top programs. The note pad only provides limited space, but if you want to write great swathes of text you would probably use your word processor anyway.

These are minor irritations when compared with the potential of the package. It is easy and pleasant to use and does everything that it sets out to do. The telephone book is quick and efficient and has an effective 'Find' facility, that could actually make it quicker to use than a 'manual' telephone book.

#### Dear diary

The diary, although perhaps limited for space, seems practical enough to use. If there is an entry against a given date it is highlighted on the calendar so you have no excuse for forgetting to look. You can pass back and forward through the months with ease and can use the calendar feature to work out the day your birthday is on up to the year 1999 (sensibly avoiding the century leap year problem - Ed). After that you have to guess.

The ultimate feature for all aspiring bureaucrats is a special memo-writing option which neatly lays out all your memos and then stores the result to disc. The editing here is made slightly more complicated by the use of the mouse. Most of the effects you would want are available (paste, cut, copy, clear, justify centre and inserting or deleting lines) but you have to refer to an option at the top of the screen to carry out these simple tasks. You pick out the text or move the cursor around the page with the mouse, and this takes a moment or two to get used to. Still it is a facility that no red-blooded executive should live without

Notes are taken under an option disarmingly called the 'Jotter'. This gives you a potential of five pages of notes and more importantly you can move from page to page easily and quickly. You can even transfer text from one facility to another using the paste routine.

A four function calculator is available and worked either from the mouse or the keyboard - it's guite convenient to use the mouse.

You can set the time and date in a small clock window and perhaps more interesting you can set an alarm that bleeps away merrily, as long as you have Desktop on screen. As you mainly use the program as a link between other programs this is less useful than it might seem at first. It is invaluable, though, if you set your mind to solving the 'simple' sliding block puzzle.

This puzzle is a faithful copy of the trend setting Apple Macintosh one and doesn't seem to be any easier than the original. The manual gives you nine possible solutions (including one marked ominously 'Impossible') which you can work towards until senility sets in or the alarm goes off to point out that you have just wasted two or three hours of your life.

#### One at a time

The only problem with pulling out the many windows is that you cannot use a window that is overlapped by another one. Every so often you get an message window telling you to close all the others that overlap before you can use a facility

The best way round this is to adjust the size of the windows, a simple exercise using the mouse. For instance the directory window can be expanded or contracted at will - you can still use it at its reduced size to find the file you want.

The other possibility is to actually move the windows around the screen to suit your needs or artistic sensibilities. This system is not infallible, though. Try as you like it seems impossible to show the jotter and the phone book at the same time.



#### Verdict

The mouse itself is not a thing of beauty in grey with 'something bright at night' red buttons. The action is not as smooth as some mice but it works well enough. It soon becomes such a natural extension to your hand that you have to think what to do when you eventually have to use the keyboard again.

The program at last provides a desk-top organiser that you would really use to 'organise' your life with the PCW. It would also be very useful to those who are wary of taking the plunge into the twilight world of CP/M. 5

#### PLLISES

- A genuinely useful desktop
- organiser, well presented and easy
- Makes CP/M commands easy. Provides a 'phone book and notepad practical enough to use.
  - RANGE OF FEATURES MINISTER

Mouse is slightly erratic.

Takes up a lot of space in the M drive Can be a nuisance if you really want to use CP/M

PERFORMANCE DOCUMENTATION

MINUSES

8000 PLUS VALUE VERDICT BEEF

#### To a mouse

Nowadays Rabbie Burns wouldn't recognise the "wee sleekit courin timrous beastie" that he spoke of in his poem. The modern mouse has dropped the verminous reputation of his rodent predecessors and is making a home for himself with friendly computer users.

The mouse is now a hand-sized box of plastic with buttons on the front and a long tail of cable joined to an interface which fits into the expansion slot in the back of your PCW. The AMX version comes with its own expansion slot for 'piggy-back' additions (Amazing the number of animals

joining the world of high technology.) The mouse runs on a metal ball that allows you to move it around your desk (or special 'mouse' mat). As you move the mouse the cursor moves on the screen. When you reach the relevant menu or Icon you simply press the button on the mouse to make your choice

The AMX mouse has three buttons one for choosing, one for cancelling and one to use on special occasions (like when you are moving a number of files at the same time.) Until now there has been little software written to take full advantage of the mouse but the recent launch of various mice and the announcement of a flood of suitable software means that soon no selfrespecting PCW freak could afford to be seen without a long-tailed friend.

Jargon Buster

physical equivalent A file is like the box in

and. A record is like a single

which you store all the

card within the box.

mber or date

A field is a single piece of

information on the card e.g. a name, telephone

re are three main terms

used when describing databases. If you think of a

database as a computerised

card index, they each have a

# RAPID RUNAROUND

#### FILE MANAGER £99.95 Sandpiper Software 0978 355333

According to the results of our reader survey, more PCW users are considering a database as their next software purchase than any other application. Databases vary a lot in facilities, quality and price, and Sandpiper's File Manager comes into the higher price bracket for PCW products.

You can look at File Manager on two levels: the fully fledged database can handle up to three files simultaneously and relate them together to save having the same information recorded twice in different files. It allows a fair amount of 'customising' – you can create a database to fit your particular working method and the way you currently store your information.

If you don't require a tailored filing system, you can build a simple, card index style database using the RAPID database generator, supplied with the package. This will probably be enough for most people.

Following the instructions

The first thing you notice about File Manager is the 160 page manual with the nicely drawn Sandpiper logo. The next thing you notice is that the 160 pages are badly duplicated, riddled with spelling mistakes and typos, and arranged in a most peculiar order with the tutorial section at the back

The main criticism is that the tutorial section concentrates on telling you what keys to press, without giving an overview explaining why you are doing things. Having completed the tutorial, you're not left confident that you could define a database for any other application.

Most users will approach File Manager from the RAPID generator, which is intended to take much of the detailed work out of designing a database. It offers only limited facilities when compared with a custom-designed database, but is much easier to use.

The first job is to design the screen display. The program uses a rudimentary screen painter which allows you to type background text straight onto the display, position and define your fields, and add line graphics. There is also a clever routine to outline areas of the screen with boxes.

This originality is marred, though, by unnecessary restrictions. You can't use either of the delete keys, but have to use III to insert a space and III to delete one. There's no facility to move or copy text and the whole screen appears in the top left hand corner of the display.

When you come to define the fields of your database, there is a wide range of parameters, including, of course, naming the fields. Each field should have a unique name, so that File Manager can distinguish between them. Unfortunately, no attempt is made to check for duplicate field names, and it is possible to accidentally give different fields the same name

Having designed your screen, you can call up RAPID to generate the rest of the database specification. This it does quite quickly, leaving you with a number of 'RAPID' files on your disc. Talking of discs, you have to ring Sandpiper and ask for a special code before you can even use the program. This kind of protection has grown very unpopular, and it's easy to see why. What happens if you buy your software on a Saturday morning?

#### Long playing records

When using File Manager, each record in the main database is displayed with the layout you designed earlier. You can add a record to the datafile and change it later; you can call it back to the screen by entering the contents of one or more 'key' fields. What you don't appear to be able to do is to browse through your records sequentially. Although you could probably program this into your database, it's not included as standard in a RAPID-generated file.

You can print your records and save them as screen copies. You can also define selection conditions and calculations which File Manager will use on your file, but to do so you have to learn the full version of the program, rather than relying on RAPID to do much of

The whole system is incredibly hesitant. Even with the small file set up to review the product. File Manager took several seconds to save or decide to print a record. On a large file, this would make the system very slow. Even moving the cursor up and down the screen took an appreciable time, and on one occasion corrupted the screen.



#### The bottom line

It's important to separate File Manager from its manual. If you thought the LocoScript manual was hard to follow. then you won't stand much chance with File Manager's. It's badly organised and obviously written by someone who is much too close to the product (probably the programmer). It is very hard to work your way around and doesn't clarify several important points on the use of the program.

File Manager itself has a lot of potential, but in its present form falls to realise it because of some silly restrictions, slow operation and annoying working methods. Although the RAPID generator can put a simple database together quickly, you'll need a good knowledge of programming to design a complex customised system with File Manager. If you need this kind of system, Masterfile 8000 is a better bet.

#### PLUSES

Potentially a powerful and flexible

RAPID generator can produce simple files quickly

MINUSES

Appalling manual Poorly customised for PCW use Full system very complex to use

RANGE OF FEATURES EASE OF USE

PERFORMANCE DOCUMENTATION 8000 PLUS VALUE VERDICT

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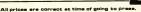
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# BEATING BIG BROTHER

The Data Protection Act gives you obligations and rights.

Do you know what they are?

omputers are very good at storing and retrieving data. The chances are that your name is held on dozens of computers throughout the country – credit card companies, the AA or RAC, and many local clubs all keep their membership records on computer.

Computers not only store data, they make its manipulation much easier. Different computers can swap details on you at the drop of a telephone, and if your details have been noted down wrongly, it is extremely hard to correct the data in every place it has reached. This can be a serious problem if, for example, you have been mistakenly labelled as a bad credit risk by your credit card company – you could find yourself being refused insurance and mortsgases for no apparent reason.

To try to regulate this situation, the government has introduced the Data Protection Act. This obliges everybody who uses personal data on computers to register their use, and equally tries to ensure that individuals have some control over what data is held about them where.

The idea is that if you hold any information on a computer which can be linked to a specific living individual, then you must register your use of that data. That is to say, if you are storing letters with the addressees name and address, or a list of customers with the products they have bought in the past, or anything which names names, you must declare it.

#### Do you or don't you

Not all computer users have to register under the act. If everybody who owned a home micro filled out an application, things would get ridiculous. So there are certain exclusions to the act. Firstly, if you use your computer solely for personal, family or household affairs, then you are exempt and need not register.

Two other exempcions are mailing lists and accounts. You can hold lists of names and addresses, as long as that is all there is — no history of customer purchases is all llowed without registering it. As an employer, you don't in theory have to register your company payroll and accounts, unless you intend to make that information available to other people. In practice, most payrolls and account systems are registrable because they usually hold more than the bare details of names, dates and amounts, and so aren't exempt.

If you run a local club, you can keep your membership records on computer without registering, as long as every member knows about this and none of them object. You only have to register personal data on people who are alive. For example, you don't have to register genealogical records, or the list of people you have recently murdered.

Many PCW owners originally buy a machine for home

use and gradually begin doing more and more with it as they realise its power. As soon as you start to use it for business, even if it is only to help sell your vegetable garden surplus, you may have to register.

Bear in mind that being registered under the data protection act in It like having a driving licence—you don't get a carte blanche to process any data you feel like. Instead, you have to register each individual type of processing that is covered by the act. If you begin using your PCW for a new (and registrable) use later on, you must register that too. Registrations for any purpose only last for three years, after which you have to reapply.

#### Your rights

If you are a data subject, as the act calls people who have data held about them, you have certain new rights under the act. These rights will be legally enforceable from November 1 Ith 1987.

If you know that an organisation holds data on you, you can (from November) legally demand to see the relevant data. The company is obliged to reply within 40 days of your written request, but they may charge a fee for doing this. The maximum fee hasn't yet been fixed, but is likely to be £10 or more.

But here is the big loophole in the Act: as a data subject, how do you know who holds information on you? There is no answer to this. You can go to public libraries and ask to see the Data Protection Register, which will be on microfiche. This tells you which companies use what kinds of information (if they have registered!) so you can make an informed guess as to whether they might have details on you. If a company does have details on you, they aren't obliged to tell you if they have passed them on to anybody else.

Credit card companies are slightly special, since they are gargely covered by the Consumer Credit Act of 1974. They are covered by the new act too – the Data Protection Act is supposed to plug any loopholes in the Credit Act.

There are exceptions to your right of access. You aren't entitled to see your police or tax records, or most government bodies' records.

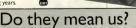
The Data Protection Act seems a well-intentioned attempt to give individuals more control over the evergrowing mass of information stored and used about them. It is the law of the land, and you are therefore obliged to follow it.

In practice, the Act is largely unenforceable. The sheer number of data users mean that it would need a department the size of the Inland Revenue to police the act, and most of the important data in the country (like government and police records) are exempt anyway. Still, the fact that the government has realised the problem is a good sign, and hopefully some more realistic legislation will appear over the coming years.

# The penalties Since May 11th 1986, it has in theory been a criminal offence not to register each new (non-exempt) use of

offence not to register each new (non-exempt) use of your data as it arises. If you don't register, you could face unlimited fines, and the courts could order the offending data to be destroyed.

For the moment though, the Registrar is much more interested in ensuring that you do register than in



535777

To help people understand the Act, a series of booklets has been produced. These are fairly free of computer and legal jargon, and should be a useful read. There are two pamphlets of questions-and-answers. Inevitably there will be cases of

Inevitably there will be cases of uncertainty, where you aren't sure if the act applies or not. There is a Data Protection Registrar, currently Eric Howe, whose job it is to ensure that all the rules are being correctly enforced and to arbitrate in cases of uncertainty Unless you are absolutely certain that the act doesn't apply to you, you ought to get an information pack and registration form: Either write to Enquiries Department, Office of the Data Protection Registra, Springfield House, Water Lane, Wilmslow, Cheshire SR 95 AX, or phone 0625

8000 PLUS 23

#### ONTEST

# QUICKIES.

#### MICRO-PLUS CASHBOOK £39.95 (£6.95 demo version) • Micro-Plus • 0424 224355

There are two ways of tackling accounts on the PCW. Buy a package that does everything except post the completed books to the auditors, or buy a simple system that just keeps track of your figures.

The main advantages of the second system are that while it stops your accountant having a nervous breakdown when you bring in a shoe box full of dogeared receipts, you can run it without a degree in accountancy or computer science

In their new Cashbook Analysis System, Micro-Plus have tried to produce a 'fool-proof' simple system that will allow a small business to handle 'the books' and keep track of the financial situation. You can call up a list of entries from the Cash Book and Unpaid Bills Account. display a bank reconciliation statement, VAT information and even knock out a trial balance with little effort. The trial balance even prints out the percentage of revenue and expenditure that each expenditure represents won't that impress the bank manager

It works on a system of Nominal Headings; that is to say when you want to tell the computer you have spent money on petrol, you type the appropriate Nominal Heading number. Micro-Plus has provided quite a comprehensive list of headings which should suit most needs but with the built-in flexibility of allowing you to add or change these headings, up to a total of 80 entries.

There are 15 Nominal Headings entries given over to where income has originated and there are nearly 100 sections that can hold the names of suppliers of goods to be resold or worked into finished goods

Of course this could cause total confusion while you are getting used to whether Somerton Llama Meat Traders plc is number 156 or 157. There is no 'find' facility to look for a specific name although you can call

RANGE OF FEATURES PERFORMANCE EASE OF USE DOCUMENTATION 8000 PLUS VALUE VERDICT up a list on screen. It is more practical to print out the list and keep it beside you

One major plus is that the program has worked out a system for dealing with mistakes once they are on disca feature often missing in accounts packages. You merely repeat the entry exactly except putting a minus before the figure. In the next entry you put in the correct details



The weakest feature must be the limited amount of reference space that each entry is given. Although you are asked to enter the date as you enter the program that is the only interest paid to the passing of time - a tragic lack when you are trying to keep track of unpaid bills, for instance.

The only way you can call up details seems to be using the 'transaction number'. This is an eminently forgettable detail, and with the sad lack of references could cause any number of headaches when you go back to look for a specific piece of information.

A final oddity is that Cashbook alters your keyboard so that it can only produce upper case letters. You will have to reset the PCW later on to be able to get lower case again!

In many ways the Cashbook lives up to its promise although with enough quirks to leave an unsettled feeling.

#### UNIVERSAL SELF-START £19.95 • Cornix Software • 0462 682989

There are two types of PCW user - those that want to see what unlikely feats they can get it to perform and those that want to use it without having to bother about how it works. Cornix Software obviously have the second category in mind with their Universal Self-Start.

It allows you to take any commercial software package and produce self-starting discs, so you can load a program by switching on and inserting the correct disc. Cornix admit that you can perform these tasks using CP/M utilities provided free with the PCW – if you can understand the CP/M manual it is not an onerous task to knock up a quick PROFILE.SUB file to do this anyway.

But Cornix reckon there are plenty of people with A>-phobia out there. Also, for someone who wants their PCW to be used by a third person who is not really computer literate, the very fool-proof nature of the starter file might prove an advantage.

The program runs like the kind of installation program

you find bundled with some commercial programs. You are told, in simple terms, how to put the system files and SUBMIT.COM on to your starter disc. You run 'Instal' and it elicits the answers to a variety of questions regarding screen size (full or 24x80), whether you need single sheet or continuous paper (and sorts out the size) and winds up with a full choice of printer commands (Elite/Pica, normal/italic type,draft/NLQ and single/double strike).

Even if your application program doesn't need a modified screen or printer, you still have to answer all the configuration questions. It won't deal with copying your files to the M drive for speedy use, nor will it help you defining a SETKEYS file.

You have the choice of putting the Start program on your program disc or making a separate starter disc. As the Start program actually takes up 14k of space on the disc this might be necessary in some cases.

When run, the Start program will insist that you load the correct disc for the required program and rejects all others - an advantage when your PCW is being used by someone not used to the machine.

At the end of the day you have to decide whether or not you really need a self-starting disc and whether you wouldn't be able to produce your own Profile. Sub file - a not impossible task. Then you have to decide whether you are prepared to pay £19.95.

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# SECOND CLASS MAIL

Rummaging further through the lost treasures of the PCW master discs, Ben Taylor finds some free communications software.

he master discs that come with the PCW have a veritable hoard of free goodies stored on them to please CP/M users. This month, the spotlight falls on side I of the discs.

Hold on! Isn't side I the LocoScript disc' True enough, but in proper Amstrad style there is a useful CP/M file hidden in amongst the LocoScript files. This file is called MAIL232.COM, and is a program to send information to, or receive from, the big world outside the PCW.

In short, MAIL232 is a piece of comms software. If you have read this month's Communications article, you will know what comms can do. MAIL232 can control a modem and so give you access to Telecom Gold, and to other computers with similar setups.

If you are going to use comms services often, you may tire of MAIL232 after a while. It lacks polish and friendliness, and it can't be used to access Prestel. However, for occasional users of Telecom Gold and other 'electronic mail' systems, it is quite good enough, and saves you spending £50 on special software until you really need it.

It's free, except ...

Before you start, you will need to have a 'serial interface' unit such as Amstrad's CPS8256. This is a box which slots onto the back of the PCW, over the expansion socket. Serial interfaces are sometimes called 'RS232' interfaces, which explains the enigmatic '232' at the end of MAIL233's name.

To run the program, boot up CP/M normally and wait until you get the usual A> prompt. Now put your copy of side | (the LocoScript side) of the master discs into the drive and type MAIL232 [RETURN].

The program uses LocoScript-style menus, although there are subtle differences in the way they work. Across the top of the screen you will see a menu bar, where [fl],

[f3], [f5] and [f7] are all listed. Pressing one of those function keys will bring a menu down, and the cursor keys with ⊕and ⊟ make the settings. Press [EXIT], not [ENTER] as per LocoScript, to clear a menu away.

The first thing you do with any comms program is to set up the line speed, parity and so on. This is done with the 'framing' menu of MAIL 232.

Press [I], and the menu drops down, use the cursor keys to get to the choice you want, and then as you press ⊞ and ⊞ the settings will be changed on the menu for you. When they are as you want, press [EXIT]. You will have to find out what the correct settings are by saking the person or system you're trying to connect to — the sender's and receiver's settings must be identical.

When you have set up, get your modem running and dial the service you are going to use. You can now type away, if you have set the speeds up correctly, everything you type will be sent to the other end of the line, and the replies will appear on the screen.

# Copying MAIL232.COM

The reason MAIL232,COM is on side I not side 2 of the discs is just space – side 2, with the rest of the CP/M programs, is full of other things.

It makes sense to transfer the file from your LocoScript disc on to your CPIM one. First, make sure you have enough room on your CPIM one by erasing some files if necessary. You probably don't use ED.COM much, so delete that.

MAIL232 is literally hidden on the LocoScript disc. In CP/M terms, it has been declared as a 'system' file. although you can run it normally, it will not show up on directory listings, nor will PIP copy it without a special command. To copy MAIL232, you need to use PIP's [R] option. Assuming you're copying it from a disc on drive B to one in drive A, the command is

PIP A:=8:MAIL232.COMER]
The [R] suffix tells PIP that MAIL232 is a system file. Now you can erase
MAIL232 from the LocoScript disc, giving yourself an extra 4k of space

The new copy on the A disc will still be a system file. If you want to make it into a normal file (a 'directory' file) so that it will appear in future DIR listings,

you must give the command
SET MAIL232.COM [DIR]
You will need to have the file
SET.COM on your current disc.

#### Saving your messages to disc

Typing text in and reading the replies is all very well, but doesn't work for long messages. You want to be able to store long replies in files to print out and peruse later on; also, you want to be able to send previously prepared text files to avoid typing 20 pages of text while your phone bill ticks away.

The [13] menu does this for you. Sending a previously prepared text file is the easier option. move the cursor to Send and type in the filename. It must be a file on your currently logged drive, and you can't use names like 8-FRED' to get to a file on drive B if you are logged onto drive A. When the name is correct, press [ENTRE] to send it. Your screen will not necessarily show the file as it is transmitted.

To receive long messages, you type the name of the file in which you wish to save the incoming text in the 'Receive' slot. So type in all the commands needed for the host system (the one you've rung) to send the text to you, but don't press the crucial [RETURN] to start it

transmitting. Press [5] and set up the receiving option, and when you press [ENTER] MAIL232 is ready to receive. You are now back in 'chat' mode, so press the final [RETURN] to start the host's transmission. Any text that HAIL232 receives is now stored in the named file. Pressing [ALT]+[STOP] together stops the saving process and closes the file.



There are two more function keys to be used, [6] and [7]. [fs] connects or disconners MALL232 from the communications line: use 18 to switch between the two states, and [EXIT] to finish. Being 'Online' means you are able to send and receive data, and being 'Local' means that nothing you type is actually transmitted'. Local isn't a particularly useful mode to use.

Finally, the [f7] key covers two functions. The 'Return to CP/M' option is self-explanatory – just put the cursor over it and press [EXIT]. The other option on the menu, 'Z19/VT52 Emulation' is a little more obscure.

If you have ever worked with larger computers, like PDPs or VAXes, you will know that a standard kind of terminal to use with them is called a VT52. Z19 is a very similar terminal emulation, produced by a different company. With MAIL 232 set to this mode, you should be able to use it as a terminal to one of these more powerful computers, which you might use at work.



MAIL232 is not a particularly sophisticated communications program, but it will just about do all the vital functions. As you come to use comms services more, you will find that buying some better software (such as that mentioned in our comms feature this month) saves a lot of hair-tearing.



#### Life! Don't talk to me about Life ...

Every computer has its little in-joke planted somewhere by the designers, and on the PCW it is to be found in the MAIL232 program.

"Life' is a mathematical game. The idea is that you have a colony of bacteria which are evolving over the course of several generations. In each new generation, some bacteria die and some are created. A bacterium dies of overcrowding if there are more than three other bacteria around it, and dies of loneliness if there are less than two neighbours.

A given bacterium will be alive in the next generation if it has exactly two or three neighbours. If an empty space has exactly three neighbours, then a bacterium is created in that space in the next generation.

So to 'play' Life, you set up an initial pattern of bacteria on the screen, and watch as the computer trundles through the generations. The idea is to find a starting pattern which does interesting things: it should grow, or

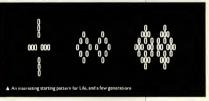
move, or anything other than just die out, as most do. What of MAL 232 hall this! If you bring up the f[3] menu, move the cursor to 'Transfer as ASCII' and press [EXTRA]+P, the screen will clear and prepare to play Life. Now use the cursor keys and the [RETURN] key to set up an initial pattern. When you press the space bar, the PCW will roll through the generations, until you press space again to stop it.

Have fun, and long may your bacteria divide.



True blue VT52

the VT3.2 emulation that the PCW offers is not fully comprehensive. It provides most functions, but if you try and use a complex screen editor it will probably fall down. Then again, a real VT52 terminal costs over £1,000!





# Transferring .COM files

There is a final option on the [f3] menu, labelled 'Transfer as ASCII'. With the "Bkey you can turn this to 'Transfer as HEX' and back. For sending text files, as you will normally want to do, don't alter this from the ASCII setting.

However, you can't normally transmit. COM files (or any 'binary' file) with MAIL232. This will never be a problem if you are just using Telecom Gold, but if you are connecting directly with a friend who wants to send/receive a. COM file (for instance to copy a file from a bulletin board) you will need to set to 'Transfer as HEX'. This is only useful for transferring .COM files with other PCW owners, as it is only MAIL232 that uses this type of transfer.

If you do transfer files with the HEX option, once received they will need converting back into .COM format. To do this you will need to use the CP/M utility HEX.COM: edit any rubbish data out of the received file (suppose you call it FRED.HEX), and then the command

HEXCOM FRED will create a runnable FRED.COM file from the FRED.HEX file.

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t still bothers me how close I came to spending 23.500 on a combined word processing, data base and stock control system. Now in all fairness it must be said that for my hard earned pennies! I would be buying an integrated system allowing word processing, text and file processing, accounting, forecasting and information systems to be developed using the same instructions and fats.

The software would have been tallored specifically to my day to day business running requirements. The machine itself was a Transtec ZBOA 8 Bit processor with 64K of random access memory, a twin disc drive each with 5' "diskettes holding 2 x 400K characters and 8 K read only memory, a separate gwerty keyboard, a 25 line x 80 character amber or green monitor and a Juki 6 100 printer with various daily wheels plus two days full instruction for the operator. Seems reasonable, you might think, if that's what you want and you can afford it

Well affording it is another matter! I don't suppose I will ever know as the system would have been leased and in any case totally academic now as my company closed unable to support a workforce of ten and a 7,000 square foot factory. There is no doubt that had the computer system been in my hands twelve months prior to the closure things would have been very different. To maintain control of your business, however small, it is essential to know where you are and where you are going at any one time.

#### If at first you don't succeed

Two years on I have restarted and totally restructured my company with only myself, my wife and an Anstrad PCW8512 running the company from an office at my home, with a turnover and profit exceeding that of my old company. With just a few weeks eyestrain and a Super-Cale 2 program I know exactly where my company is and I certainly know where its going.

It must be said that if this article is dedicated to anyone it must be the small business owners who think the computer, at the mere touch of a button, will transform their business and bring them instant success.

O.K. so I'm one of the fortunate few having a second crack at getting my business right I knew I had a good, saleable product but there was no point in retracing my steps trying to reform the company with a factory and staff. It hadn't worked the first time around, and the market hadn't changed so I saw no reason for it to work

The only sensible alternative was to contract the work out, providing we could maintain a reasonable and competitive price. This would of course eliminate the the biggest problem — overheads. As you can imagine, ten staff and a factory accrued an awful lot of expenses.

The next problem to overcome was administration, which wouldn't automatically disappear with the factory. The administration would still consist of innumerable regiles to enquiries, orders to suppliers and invoices etc. so a typewriter was obviously essential. Stock control, accounting, book keeping and forecasting was likewise high on the priority list to ensure the success of the new company.

I knew that there were any number of microprocessors and necessary software on the market that would take care of my modest requirements. But which one should go for, and more importantly how much would I need to spend? One thing was for sure at the outset, the computer system that was going transform my original business, was financially out of reach even on lease.

Specialist magazines seemed the best course of action at the time, and bearing in mind that I had taken very little interest in computers for over two years I was

# SECOND TIME AROUND

Custom car connoisseur Peter Gowing has had his ups and downs in business. With the help of his PCW, he's made it good.



## Death of a salesman

I am not a great believer in plastic credit but if just happen to have a Dixons credit card. So off I went to my local branch eager to find out more about this amazing machine ... almost end of story! Thirty long minutes after arriving at the shop, trying to gain as much information as I possibly could from the salesman, I hadn't learned at thing - tell a lie, I knew the price and that they had plenty of machines in stock.

acception who lives in the Southend area will know there are guite a few retailers of Amstrad equipment and I felt at this point my only course of action was to about turn and head for henearest computers pecialist, in my case Estuary Computers. Walking through the door was like a breach of fresh air! As soon as the saleman see yes on me he knew! Vass 'brand new'. Undeterred by this he patiently listened whilst it esplained the sort of have to perform to make me a millionaire before the end of the year.! soon found out that if there were any miracles! Was going to have to principle to the sort of the programment o

perform them myse

In fact, in this case the miracle would take the shape of the SuperCaCc 2 software. I have to give the salesman his due; at this point he knew he didn't have any Amstrads in stock, and he knew I would therefore be buying mine elsewhere. He also knew that he could not match the credit facilities offered by Dixons at that time.

At this point I was draining as much information from this guy as I possibly could, with him fully acknowledging that I would almost certainly be purchasing my machine elsewhere. I think he would have been quite justified in asking me to leave there and then, but no, he continued to describe how my manual stock control system could be adapted for use on the 8256 by way of a spreadsheet, and carefully explained how it worked.

The least I could do was buy my software and back up diess from him. He realised that I wanted to get as much as I could from this machine and I am extremely grateful to him for advising me to purchase the 8512 with the extra memory capacity.

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▲ With SuperCalc 2 you can see your business's state at a glance
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▲ SuperCalc showing the formulae used to generate the cash analysis

# Are you a case?

Has your PCW revolutionised your life? about the packages you use. If you've Traumatised it? 'Case in Point' is a had a bad time with some software, Traumatised it? 'Case in Point' is a regular feature of 8000 Plus, and we are always looking for readers with interesting experiences to relate. If you use your PCW for something more than just running LocoScript, why not share your thoughts with a waiting world?

Try to keep things light but specific, with a fair smattering of hard facts

don't be afraid to sound off - you could be saving other readers weeks of

agony. We are looking for articles of not more than 2000 words, for which we will pay our usual generous rates. Write to Case In Point, 8000 Plus, The Old Barn, Somerton, Somerset TAII puzzled to find that almost every other page contained the word Amstrad. Surely these were the people who made cheap hi-fi systems and I didn't recall them having a particularly good reputation for reliability either. However, after reading several articles about microprocessors suited to the small business, and considering finances carefully, the Amstrad 8256 did seem to have the potential I needed.

So I went out to scour Southend for Amstrads and information. When I finally got home, I was like a kid with a new toy finding it very difficult to heed the Amstrad manual instructions to "wait do not plug in yet". Patience prevailed and my enthusiasm did not wane. For two weeks every evening, sometimes into the early hours of the morning and certainly during the day when possible, I would be tapping away determined to make this computer earn its keep.

During these few days my wife and I had mastered LocoScript, the wordprocessing software supplied with the 8000 series machines. We created templates to suit our previously printed letterheads, invoices and orders. Although the Amstrad printer doesn't achieve the high standards I had become accustomed to, it still outshines some leading electronic typewriters. The various print styles available, together with a little work designing templates and the results can be very professional.

During the twelve years of self employment owning a motor accessory shop, a garage and a company which manufactured two sports cars per week, I have never had a precise stock count - nothing to boast about I admit, but how many small businesses share my dilemma? I can now present my accountant, in about 60 seconds, with the value of my entire stock to the nearest penny at any time during the financial year. Costings can now, in a matter of minutes, be checked against the last invoice and updated.

Instead of waiting until the end of the year for my company performance figures I can readily check profit and loss at the end of every month. One of the most tedious and time-consuming tasks for any small business falls at the end of each quarter when columns of figures require totalling for H.M. Customs and Excise. Conveniently, each of my sales and purchase lists will now total at my command, separating the VAT from net and gross figures.

I refuse to grant Messrs Amstrad and the writers of SuperCalc 2 all the credit for my new found office 'superefficiency'. It has taken some eight months of mostly enjoyable and immensely rewarding hard work to reach the stage where my computer has replaced the staff I once relied on so heavily.

If there are any readers without any previous computing experience who are contemplating the purchase of a microcomputer for their small business TAKE NOTE: there are no miracles and there is no such thing as 'at the touch of a button'. You must be prepared either to attend one of the hundreds of courses around the country to learn how to use your micro or to pay for the ground work to be carried out by a professional in your home or office.

If you refuse to lay out several thousand pounds on an integrated package, there is only one option left open to you, and that is to slog through the software manuals. However, if you do not have the time or the inclination. you may as well just stick to your old pen and paper system. If, like me, you treat it as a hobby, looking forward to the next discovery as the machine improves the performance of your company, you and your business will never look back, I promise.

#### PAPER GUIDE FOR PCW 8256 & 8512 AMSTAT Now you can load paper accurately and easily MODULAR STATISTICS AND MATHEMATICS PACKAGE No more to pay time after time. Essential for high quality presentation of your work. Set up the guide Marketed by S.C.COLEMAN once and every page prints out with precisely Available for BOTH PCW AND CPC ranger aligned margins and text. \*\*\*\* NEW AMSTAT7 \*\*\* WHAT THEY SAY ABOUT IT AMSTAT1 (V1.2) — means, st. devs. variance, skew, kurtous, 1-sample, 2-sample, and paired t-teass. 1-way-AOV with single and mult conf intervals, 2-way-AOV, correlns, regression, histograms, scattergams, transformations, file store and retrieve, output to WP file, manual. Flexiable variables and observations to a total of 500 (+) data points. 'ample, well designed extremely well constructed the paper ends up every time more or less squarely at the bail bar liss a good feeling, for your money you not only get something instantly adjustable to any size of paper, but also something permanent and good looking to boot: AMSTRAD PROFESSIONAL COMPUTING observations to a total or abut #1 observations points Observation 5.7 compliamentaria tests in 4 programs oproviding a Chasquare (3), Kolemogene-Simmov (2), Kans, McNemar Sign, Wilcocken , Wald-Wolfenser, Wald-Wellow, Contingense, , Wald-Wolfenser, Moses, Contingense, Spearman, Kendal, Kendall partail, Contingense, Spearman, Kendall, Kendall partail, Contingense, Speeds up printing FITS SIMPLY ON THE AMSTRAD PRINTER "tremendous value" - Tony Kendle, Popu-lar Computing Weekly, 8-14th May 1986 UK manufactured from high quality hylon and satin finish alloy parts specially styled to minch scales in pitch 10 and pitch 12 aligned to screen layout markers to centre A4 adjustable for any paper size speeds up printing "I now give it an unreserved recommenda-tion." Jo Stork, Business Computing with the Amstrad, July 1986 AMSTATE FORECASTING TEL: 0625 58 5003 Chromodynamics Itd. TEL: 0625 58 S array of business oriented mathematical and statistical software: Linear and Polynomial in end and Seasonal Variation, Multiple Regression Analysis, Transformations, Exponential Si approxe filtering, Graphic deplay, full printionut, manual suited to immediate use and for teach AMSTAT4: RESOURCE MANAGEMENT – LINEAR PROGRAMMING MODULE General purpose Linear programming + Specialised Transportation and Assignment variants. Capable or analysing and solving problems of sequencing, scheduling, blending, and allocation of scarce resources 40 page manual, 18 worked examples. INCREASE 512K TO 640K FOR AMSTAT6: SPANOV — Up to 1—vay analysis of variance for equal cell sizes. Unequal cell sizes on 1—vay AOV. Misermum of 2000 data points (200 on unexplanded CPM 2.2). Input from ASCII Files read to 1.2 for the cell of the ONLY £19.90 PLUS VAT 18 off 4164-150<sub>NS</sub> 64K bit Dyanmic RAM why pay AMSTAT7: RESOURCE MANAGEMENT II - STOCK AND PRODUCTION ANALYSIS Calculation of optimum re-order levels for both single and multiple items. Dynamic programmic calculate optimum production schedules for single items and consolidation of several results in multiple schedule. Also Pareto and Lorenz analysis. Output to screen or printer. Includes operat matual with worked examples. more when you can save money and fit them in minutes The programs have applications in research of all kinds, education, sales, production planning, work and MONEY BACK GUARANTEE IF NOT DELIGHTED ning, personnel, soc CPC PCW ..... £25.95 £27.95 ..... £39.95 39.95 ..... £25.95 £27.95 ..... £25.95 £27.95 send £24.50 to include VAT & P&P OTHER CHIPS 41256-15 £2.99 each 27128 £2.10 each supplied New catalogue only £1.50 + 24 hours answerphone. Cheques POs to Microtit Ltd 0536 744664 S.C. Coleman, 33 Leister Road, Ashby-de-la-Zouch, Dept 8000+ 18 Coldermeadow Ave Corby Northants NN18 9A Leics, LE6 5DA Telephone: 0530 415919 September 1 Supertype £24.95 INTERNATIONAL Previously published as FONT Inc. VAT and DAD PERSONAL Supertype will give you 8 radically different type faces, and will work directly with any of your software including Locoscript. NOW LOCOMAIL / LOCOSPELL COMPATIBLE. YOUR OWN "The program is menu driven and very easy to use. For the business user who just wants a different print style, possibly changing it occasionally, then FontGem (Supertype) is easily the best. Make sure your taxman is doing his job correctly with Digita's Personal Tax Planner. Popular Computing Weekly, 11th - 17th December 1986 Fully menu-driven, "PTP" is a U.K. income tax computation program which will calculate your SUPERNOVA PRESENTS income tax liability for a given tax year and provide pertinent facts about your tax position. Information, once entered, can be easily saved and amended and this can be used to provide useful "what if" calculations on your tax liability. For example, you could use PTP to see what effect .......... CLASSIC INVADERS an increase or change in allowances has on your tax liability. ovided for users unfamiliar with the operation of the U.K. tax system. Nothing could Ideal therapy after a frustrating day using the PCW." be more simple! NOTE: Software update service available for changes in legislation. wery easy to follow and the calculations are accurate. If you need a ready-made program of this kind, it will certainly do the job. The Complete Guide to the Amstrad. £13.95 Amstrad Personal User, January 1987 DATASTORE - the professional database. ORDER NOW & (03954) 5059 Looking for fast access to stored data? Want to create customised reports, mailing labels, office and personal cords with NO technical knowledge...? Researched, developed and written exclusively for the Amstrad PCW, Datastore will fully utilise the facilities of your computer. It makes an ideal partner for the novice or expert. Some of the many features include: Menu-drive with prompts Numerc, string, date and money fields. Full methematics, + - x - and average. Up to 4 user-definable keys (40 cheracters) for each file. Uses full width of PCW screen Facility to completely change the record layout after you have entered your data. Automatic calculations on entry perticularly useful for VAT, etc. I wish to pay by Cheque / P.O. / Access / Barclaycard. I authorze you to debit my Access / Barclaycard with the amount £....... 32,000 records, more with hard d 32 fields, 8 key fields. Card No INCLUDES FULL TUTORIAL FOR BEGINNERS Lightning search feature - typically under 4 seconds. 1,498 characters per field. · Mailing Lists Address: . Personnel Records School Reports Plant Records Uses M drive and A or B drives 1 or 2 drives open at one time - allowing cross referencing Signature: . VISA · Fully supported printer options Send to: DIGITA INTERNATIONAL Ltd., Kelsey H. Telephone Directory

Borns Rood, Budleigh Salterton, Devon, EX9 6HJ.

2 user-definable printing templates.
 Search on any field or combination of fields for any information.
 9pond conditional search facility.
 Search or search facility.



Proving that they really do listen to their critics, Locomotive Software have released a new, improved version of

LocoScript. Ben Taylor measures it up.

#### LOCOSCRIPT 2

£19.95 • Locomotive Software • 0306 887902

When Amstrad launched the PCW in late 1985, it was a unique machine in many ways. In particular, what was really being sold was not a computer but the wordprocessing software, LocoScript. The PCW itself was pretty much just a whole for that.

LocoScript, allied with the PCW's trusty disc drives, printer, screen and keyboard, suddenly brought the technology revolution to a whole band of people who thought that computers were thing that kids played with Anstrad's advertising campaign, showing a skipload of junked typewriters, is probably pretty close to the mark—there are very few PCW owners who, used to typing and retyping drafts of documents, do not now have an ageing Olivetti gathering dust in a corner, never to see the light of day again.

In the 18 months that LocoScript has been around, the user's have made plenty of suggestions as to what improvements they would like to be made. In general there has been a popular vote that it is ideal for quick letters, but has two major flaws, that it is very slow at moving around documents longer than a couple of pages, and that it can't use high quality printers.

Of course there are many other word processing programs for the PCW – WordStar, Tasword, Protext. All these programs work differently, and have features that are not to be found in their competitors. No word processor does everything that you could want, but will LocoScript 2 do well enough, or should you be looking elsewhere?

#### lump to it

LocoScript 2 has a key and menu structure based on LocoScript 1 but rationalised. The basic philosophy is that functions you need to do regularly are on odd-numbered function keys, and the lesser used one on even-numbered keys (you have to use [SHIFT] to get at them.)

One of the most welcome keys while editing will be the [f5]. In LocoScript I, whenever you want to move to another part of your document you have to watch the screen scrolling through all the intervening text. Even with the [DOC] key, to go to the end of the document you must witness your previous life flashing (well, crawling) before your eyes.

LocoScript 2 has a "jump to page" command. Press [f5], and you can now enter the number of the page to jump to Any number between I and 999 can be entered—use 1" for jump to start of document, and if you aren't sure how many pages there are, use "999' to jump to the end. A short pause, the disc whirrs, and suddenly you are at the start of the specified page."

The version of LocoScript 2 we reviewed was still a pre-production version, but it would move through 10 or so pages of full text in around 5 seconds. The final release version is promised to work even faster. The [PAGE] and [DOC] keys still work as before, and the text scrolls by as the cursor moves. Even so, the scrolling is two or three times faster than in LocoScript.

This speed-up (two- or three-fold) goes right across the board. The Find/Exchange command works that much faster too, although it is still slow compared to Protext. When you [EXIT] and Finish Editing'. LooScript does not scroll to the end of the document, but finishes straight away. Also, 'Save and Continue' returns you to your current position rather than the top of the document. Unfortunately the 'Insert Text' command still scrolls through the text as it inserts, so it still seems slow compared to programas like WordStar/NewWord and Protext.

The reason that LocoScript (both versions) scrolls through text so slowly compared to other word processors is that it reads the text as it goes to make



▲ The LocoScript 2 editing menus – or most of the new ones anyw

sure that it is correctly formatted on the page and on the

With most wordprocessors, when you insert a word in a paragraph, you mess up the right hand margin of the page since you have changed a line length. You then have to give a specific reformat command, otherwise it will print out incorrectly.

LocoScript does all the necessary reformatting automatically as you move down through the text. Of course, if you haven't gone past page two of a five page document, LocoScript should realise that none of the text below page two will need reformatting. LocoScript I ignored this fact, but LocoScript 2 knows it doesn't need to read any of that text (and display it on the screen as it passes it) which is how the 'jump to page' command can work so fast

When you do a jump, the only delay is to allow LocoScript to copy your disc document into its temporary workspace as it goes through it.

There is one minor side effect of the jump command which you ought to be aware of: the working of Layouts has altered subtly. In LocoScript 1, you could define several numbered Layouts, and insert them by their number at different points in the text. If you edited one of them, the changes you made applied to all occurences of that layout throughout the document.

In LocoScript 2, when you edit a Layout, the changes only apply to that particular occurrence. This is so that the 'jump to page' command can skip large chunks of text without having to check to see if any Layouts used in that region have changed because of edits you made elsewhere. It also means that if you copy one document into another, the Layouts that the original used are copied across too, whereas in LocoScript I there were confusing results.

#### A question of character

So to the other burning topic of interest - printers. The standard printer that comes bundled with the PCW has attracted some adverse comment, mainly from people who have never used other computers and seen how bad most dot matrix printout is.

For starters, people who don't own anything but the standard printer will still get a lot out of LocoScript 2. The printer font (ie. the actual design of the characters on the paper) has been redesigned to give some characters (the 'W' and 'M' particularly) a more natural look

There is a whole range of new characters now available. The character set can cope with all European languages, except, as Locomotive shamefacedly admir some parts of Tartar, Macedonian and Cyrillic Serbo-Croat. All the accents for Polish, Czech, Welsh and so on are available - there are 15 possible accent characters, any of which can be used with any character. Previously, only certain combinations of characters and accents were allowed

New characters include a full Greek and Russian alphabet (although some of the aspiration accents in classical Greek are not supported), mathematical set notation, playing card suit signs, and many more. The full range is shown in the illustration. There are a few double height mathematical symbols, like integral signs, which will prove popular with students and others.

The printing of capital letters with accents has been changed so that the letter itself is not squashed down. With LocoScript 1, the E in É would be smaller than an ordinary E, because the accent had to take up some of the character space. Now the accent is printed higher up. and the letter itself is unchanged.

Finally, should this not prove enough, there is scope for you to define up to 10 characters of your own design. Character definition is difficult, and you will need to get

# What are your choices?

and you are unhappy, you may be ing of buying another wordprocessor. In the past, the two most common reasons for buying another word processor were to be able to move around large documents quickly, or to be able to print out on higher quality or faster printers LocoScript 2 solves both these problems. There are two arguments for not using LocoScript, and it's really up to you to decide whether they are important or not

LocoScript does not run from CP/M This means that if you use a database or spreadsheet, or any program other than LocoScript, you will have to reset

the M drive, and takes about a minute to do which gets annoying after a

Secondly, you may want to use a spelling checker and a mailmerger with your wordprocessor. Most of LocoScript's competitors, although costing more, include these two extras in the price, whereas LocoSpell and LocoMail for LocoScript cost £39.95 each. In effect, to get a complete system of LocoScript 2, LocoSpell and LocoMail, the price is £99.85, which starts to make you think twice.
Compare this to NewWord at £69, and Protect at 679 05

special help from Locomotive in the form of an extra utility program to do this

This bewildering range of characters can mean you have to use some weird combinations of [SHIFT], [ALT] and [EXTRA] to get them, but that is a small price to pay.

For those who have tired of the standard printer's efforts, you can now hook up a daisywheel printer (or another dot matrix printer) to your PCW when using LocoScript 2. You will need to buy an Amstrad CPS8256 serial/parallel interface before you can to this, which will set you back £65 or so.

Broadly speaking, any common printer will work with LocoScript 2. Specifically, any printer which is Epson compatible (dot matrix printers usually are) or 630 compatible (daisywheel printers usually are) will work. Check with your dealer before you buy. You may be interested to know that the range of suitable printers includes a few laser printers - the Canon LBP-8. Centronics PP-8 and Daisy M7001 - although these also have interesting prices!

In fact, any printer can be used with LocoScript 2. If it is not Epson or 630 compatible, you will have to write your own printer driver with a separate piece of Locomotive software

The full range of LocoScript 2 characters is only available on the standard PCW printer. In particular, with a daisywheel printer you can't print anything not actually defined on the print wheel itself. However, LocoScript 2 automatically does some cunning overprinting tricks to produce accented characters such as the ones shown in

Tests showed that LocoScript 2 can usually print out to a luki 6100 daisywheel printer at roughly the printer's maximum capacity. However, when you switch to 'high quality' mode, the Juki can drop to only 50% of its top speed of 18 characters per second when doing proportional spaced text.

Even daisywheel printers have a high quality and a draft mode: in high quality, the printer runs more slowly to allow the print head a longer settling time as it moves into position. For really accurate character positioning, which LocoScript 2 tries to do, this gives you surer character registration, but is slower. You can still use the standard printer (which you have free of charge anyway) for quick drafts, and then print a final version out on the daisywheel.

#### Other goodies

Speed and print are the two main new features, but LocoScript 2 is packed with other surprises.

Printer types Dot matrix printers (like the standard PCW printer) print characters as sets of dots, and the text can look Daisywheel printers work much like typewriters, and produce a crisper character. Laser printers are effectively very high quality dot matrix printers, which combine daisywheel quality with dot matrix versatility. Laser printer cost £2000 or more, but the prices are coming down rapidly

# LocoScript 3?

OK, so LocoScript 2 is only just here. Locomotive Software would probably not be pleased to see much speculation about LocoScript 3 at this stage!

Even so, there are a couple of omissions that Locomotive might like to look at in the future. First, of course, wordprocessors cannot work too fast. LocoScript still scrolls (as opposed to jumping) at a relatively low speed through text which needs no

It would be nice to have bulk copying facilities on the disc manager menu.

For instance, if you have 20 files containing short standard paragraphs, you might want to copy them all to the M drive with one command.

Might LocoScript 3 be able to print text in multiple columns too? And probably a target for LocoScript 4, you would be able to switch to CP/M and back at the touch of a button, rather than having to reset the machine

entirely. We live in hope.
Finally, please can we have a built-in word counter?

The good news is that you may never have to use CPM again, and your days of running DISCRIT to format and copy discs are over. You can do all necessary disc housekeeping and preparation entirely from the LocoScript disc management menu in LocoScript 2. The Find and Exchange functions have been changed a little. In the old version, you could type in a phrase or word to look for, but the search only worked if the case (capitals or lower case) of the text was right. If you

looked for 'wombats' you would not find 'Wombats', for instance.

Now the case is unimportant, unless you specifically say. Further, you can include 'wildcards' in the search string. For example, if you look for 'alter' you will find

either 'master' or 'barter', whichever comes first. When you do an Exchange, you can match the case of the new text to the old text. So, if you want to change 'five' to 'six' throughout a document, and you specified that the letter cases should be matched, the occurences of 'five' will be changed to 'six', 'Five' to 'Six' and 'FIVE' to 'SIX' all with the command.

There are a couple of little extras, like you can now print multiple copies of the same document from the Printer menu. Also, if you store long documents as sets of shorter ones (as you should) you can link their page numbers and layoust together so that when printed out they follow on from each other consistently. You can set up the [RETURNI key to produce any line spacing from 's to 3, so that you can leave half-line spaces between paragraphs if you want.

The working of Blocks and Phrases has been changed too. You can now list out all the phrases you have available, to jog your memory, and the first few words of your blocks too. In the old LocoScript, whenever you left a document all the blocks you had set up were lost, but now they are all retained until your reset the machine. This means that, to copy a large chunk of text form one document to another you can COPY it into a Block, leave the current document, open the new one and PASTE the Block in.

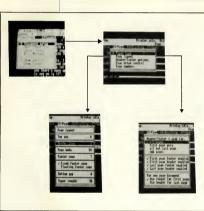
The method of setting up your page layout has changed You still have basically the same range of options in terms of where the headers and footers go, but the order in which menus appear has been rationalised. In LocoScript I, headers and footers were a rightmare. You had to define a zone and a position for the header and footer, which allowed the header text to start on any line you liked within the zone.

The concept of header and footer positions has been abolished—if you want the text to start on a specific line, you just type blank lines into the header (or footer). You can also define two independent gaps at the top you but the stationer of the page to make printing on continuous stationery nearer—these two replace the old single gap length of a page, which was confusing since it wasn't totally clear whether the gap came at the top or bottom of the page.

You can give each new layout a specific name, like 'AS'.

or 'Labels' to remind you what it is for. When you come to print a document, LocoScript will check that the printer is set up to match what the document expects. If it doesn't, you have three choices: (a) use the printer's settings, (b) use the document's settings, or (c) none of the above.

Finally, one omission that is bound to cause an outcry (or shouts of glee from magazines who publish programs listings, mentioning no names) is that there is still no word counter in LocoScript 2!!! Come on guys, a lot of LocoScript users write material which they get paid for by the word. We know that LocoSpell does this for you, but that costs 440 extra.



▲ The new menus for laying out pages

### What's on the menu?

LocoScript, as you can hardly have failed to notice, is intended to be a menu-driven word processor. When you are typing text in, there is a list of things you can do printed on the menu line at the top of the screen. For example, you can change the emphasis of the text, show the format codes or change the paragraph layout.

If you want to emphasise a word in bold, you press the key number for 'emphasis' – in this case [43]. A menu drops down, and you use the cursor keys with – and – to change the print into bold and back. Every operation you can do in LocoScript has a menu, listing out the options facing you.

The advantage of menus is that you don't have to memorise a set of commands to be typed. Instead, you think of the kind of thing you want to

do and the menus that appear prompt you and lead you through the commands needed.

Consequently, the disadvantage of menu-driven programs is that once you get proficient with the system it becomes laborious to go through the menu procedure for every command.

The alternative to menu operation is command key operation. Most other word processors use this - for bold text, you type a key sequence like '[ALT]PB'. This is fast, but can strain the brain cells if you forget the relevant command.

LocoScript gets the best of both worlds. Once you get tired of using menus, you can change to command key operation. To set up bold, "B", or "B" to turn it off again.

LocoScript

Locomotive Software's faster, more flexible word processor specially developed for the Amstrad PCW8256 and 8512.

### LocoScript 2 gives you:

#### Quicker Use

- Faster movement around documents
- Jump direct to a page
- Save and Continue from last position

#### Better Results

- Choice of printers built in/daisywheel/matrix
- New characters including modern Greek/Cyrillic
- Extra scientific and other symbols
- Accents used with any character

#### **Easier Operation**

- Multiple printed copies
- Disc copying direct from LocoScript
- Completely rewritten handbook with feature checklist and glossary
- New improved Find and Exchange

#### Compatibility

- The familiar feel of LocoScript menus
- Reads existing LocoScript documents

#### At just £19.95 can you afford not to have LocoScript 2?

Locoscript 2 is available by mail order direct from Locomotive Systems Limited. It costs £19.95 including VAT and postage within the UK. Locoscript 2 comes as a complete package including disc with software and examples plus a full user guide. For details and full ordering information, contact



# LOCOMOTIVE SYSTEMS

Allen Court, Dorking Surrey, RH4 1YL (0306) 887902



#### ONTEST

I into 2 will go

LocoScript L. You can read

documents prepared under

LocoScript Lin LocoSCript

2 – in fact they are specially

read them in – but you can't

use LocoScript I to read LocoScript 2 documents.

The way that Loca stores its files is different to

#### Manual Control

Another major new feature in LocoScript 2 is the manual. Whether or not you thought the old manual was good or bad, there has certainly been a lot of comment on it, and the new manual is totally rewritten with around 250 pages. There is a special section for seasoned LocoScript I users detailing the changes, so you won't have to plough through it all.

The manual is in a tutorial style covering all aspects of LocoScript, and it replaces the old manual entirely. A reference manual, with full details on the more complex aspects like defining your own characters and writing custom printer drivers, will be available in May as a

All of the well-loved Locoscript styles can be supported, such as boldface, double-strike, superscript and university.

You can have wide proportional spacing, 10 pitch wide, 12 pitch wide, 15 pitch wide, 15 pitch wide, 17 pitch wide, 17 pitch special pitches really require the use of special wheels.

Locoscript already supports a wide range of special and accented characters (such as: £,\$,¢,¢,á,é,í,ó,ú,â,ê,î,ô,û,à,è,ì,ô,û,ø,ñ,ā,ō,Ÿ,ā,ē,ī,ō,ü), but Locoscript 2 will be able to support any accent with any charact

▲ Printout produced form a luki daisywheel printer using a Courier 10 wheel. Accent characters are produced automatically by overprinting

# Summing up the changes

Generally, LocoScript 2 has been kept as similar as possible to LocoScript I to avoid unnecessary problems for people already used to it. Here is a list of all the changes and new features to be

found in LocoScript 2: Printers: You can print out to a wide range of printers including daisywheels, via a serial or parallel interface unit. ► Character set: The characters now cover all European languages, including modern Greek, and mathematical symbols. The range of 15 accents can pe printed with any of the characters.

peed: LocoScript's speed has been vastly improved. In particular you can jump directly to a given page number without scrolling through the intervening text. When you exit from a document, it will not scroll to the end

► Save & Continue: now returns you

to the same point in the document.

Blocks & Phrases: The contents of blocks is not lost when you leave a

'Jump to page' command makes

Superb range of characters on the

Can drive daisywheel or other

moving around faster

standard printer

printers

blocks to transfer text between files. You can get a list of all 26 phrases in a

Exchange & Match: You can now search for text regardless of case, and any substitution will have its case

adjusted to match the original.

Linked documents: Different documents can be linked so that their pagination runs continuously when inted out.

► Multiple copies: Can now be printed in one go.

Disc management: The DISCKIT functions (format, copy and so on) can be done from within LocoScript New menus: The menus have been rationalised to make them simpler. especially the header and footer setup

Documentation: There is a new 250page tutorial manual.

separate product.

The text caters for the PCW 8512 much better, with two-drive operations being treated in the body of the manual rather than stuck in an appendix at the back. There are plenty of screen shots showing how things should look at different stages, and a large index.

Inevitably, since it is aimed at taking beginners from unpacking their PCW through to total mastery, you will find that if you are looking for a key fact it may be hidden in large screeds of explanatory text. Locomotive have undoubtedly made the right choice in going for separate tutorial and reference manuals, rather than trying to cover both needs in one

Total newcomers to word processing have to invest a little effort in reading a manual. Like learning a foreign language, you can't pick it up just by common sense. The new manual is long (on some topics it seems positively laboured), but well enough written and indexed to be genuinely helpful.

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LocoScript 2 is Locomotive's answer to criticisms it has

received over LocoScript 1, and impressive it is too. It is

still not quite as fast as Protext or WordStar/NewWord.

simply, almost no other word processor at any price can

produce the sheer range of characters that LocoScript

can. For foreign language or mathematical work, do you

have any choice? Now that you can get daisywheel print

out of LocoScript, there seems hardly any argument not

straight single page letters will benefit from LocoScript 2.

The only people who might not be interested are those who use CP/M a lot and would regularly have to reset

All PCW owners who type anything more than

The character set must be a major selling point. Quite

now fast enough for most practical purposes, although

▲ The LocoScript 2 characters and accent set

The final word

#### MINUSES

Mailmerger and spell checker are still sold separately

Inconvenient for regular CP/M users Still no word counter!!! Comparatively slow at Exchange &

Find, and other general scrolling.

You needn't ever use CP/M (for DISCKIT) again Brand new 250-page manual (although the full reference manual Costs / 19 95

RANGE OF FEATURES EASE OF USE

PERFORMANCE DOCUMENTATION

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the machine to start up the other system. And at £19.95, what more can you say?

38 8000 PLUS

PLUSES

# A PCW without Protext is like a car with one gear.



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ARVOZ

# WORDS AND PICTURES

#### NEWSDESK INTERNATIONAL £49.95 ● THE ELECTRIC STUDIO ● 0467 675666

When PCW's started life they were very serious. Graphics were for effete games-playing machines with pretty coloured screens. Real computers only dealt with letters and numbers. Electric Studio with their light pers, mouse driven art packages and video digitsers, have probably done more than most to bring graphics to the green screen.

So it is only natural that they should be amongst the first to hit the market with a desk-top publishing package. Newsdesk International has obviously evolved directly from their successful art packages and makes full use of the advances that have been made in producing

illustrations on the PCW



The idea is that you can produce a page just like a page flyour favourite tabloid. You can create a masthead and illustrations in the art package, write headlines in 18 or 36 point in different type faces and arrange your text in a variety of type faces around pictures taken from digitsed pictures or culled from Electric Studio's Snip Art package.

Having said this, it is obvious that the emphasis is still on the art side. It includes the company's complete art program, which seems to accentuate this fact. It soon becomes obvious that it is easier to make the page look good than to carry out the basic tasks of getting the words onto it.

Those used to the Electric Studio system of menus will soon be zipping back and forward through the various options, though it can be daunting to the uninitiated, especially as the path through the menus sometimes seems to lack logic.

It is also true that the complexity of the system is such that a quarter of the screen seems to be covered by menus – a problem at times. For instance when you load the Index file from Snip Art to see the choice of possible illustrations, you find that a couple are always covered by the menu.

The program has aimed to give great flexibility in the layout of text, but the price to be paid for this is that beginners (and even a few experts) may be confused by the very blankness of the empty page.

#### All together now

The man danger in sitting down in front of a desktop publishing program is the desire to use everything at once. By the time you've mixed seven different type faces (with your headline in 36 point Old face, of course), reversed out boxes and used fifteen pieces of Snip Art, the final result can be less than a work of art. Producing a really professional-looking piece of work is promain-looking piece of work is promain-looking piece of work is promain-looking piece of work is professional-looking piece of work is professi

You have the choice of three type faces in 12 point for your body copy (the main blocks of text). While not perhaps the sort of font a professional magazine would use, they all quite readable and can, within reason, be mixed on the same page.

There are five fonts in 18 point for smaller headlines and seven fonts in 36 point for your main headlines. There is a reasonable mixture of practical and artistic fonts with most of the 'exciting' type faces sensibly restricted to 36 point.

You also have the choice of using these faces in single or double width to make best use of the space available and it is a simple, if time-consuming, job to delete your first attempt and change the font.

You enter headlines using the 'Keyboard Input' option which allows you to place your text anywhere on the page. The program helps you by forcing you to choose a position that is suitable to the size of type face you are using, so that you can't overwrite the line above. It does work against you, however, when you try to mix type faces or want to place something precisely in a box.

One disappointing feature is that there seems no simple way of discovering which font and size is currently selected. Given that you will often need to change fonts, you may prefer to go through the relatively long process of checking through the Font Change' menu each time rather than risk trying to write your body copy in 36 point Old face.

#### "I take my text..."

There is a text handling Mini Editor with which you can edit ASCII files or even create your documents. This works well enough although most people will probably want to write their documents in the homely

# THE WORLD OF DESKTOP PUBLISHING ON YOUR AMSTRAD PCW



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Dot matrix

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- Pull-down menus Optional mouse control
- File management structures
- Hot-line support for registered users

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- Amstrad PCW 8256 or 8512
- PCW or Epson-compatible printer with Centronics interface

#### Optional

- Kempston mouse
- Electric Studio lightpen

#### **OUT NOW**

PRICE: £69.95

If you would like to receive more information on Fleet Street Editor Plus for PCW write to Dept. FSE. Mirrorsoft Ltd. Freepost (BS4382), Paulton, Bristol BS185BR

Telephone enquiries: 01-377 4645

#### ONTEST

Jargon Buster Masthead - The logo at

the top of your newspaper that tells you whether you are reading the Sun or the Telegraph. There are other

Digitiser - An ingenious piece of equipment that can produce a picture in the computer taken from a single frame from a video camera or recorder.

Dwyle Flonking – We are assured this is an ancient Dorset game although we frankly just don't believe the rules that we have heard

environment of their word-processors and only make their last minute changes in the editor.

You position the text on the page via the 'Windows' menu. This is where you discover that owning a Light Pen or Mouse is a good investment. It is not a quick exercise at the best of times but using the keys can be painfully slow.

You can vary the size of a column to your heart's content, giving real flexibility to page make-up. Once you have filled a column, you move the cursor to another part of the page or duplicate the column you've just completed. The theory is that you can keep all your column sizes the same width across the page.

You can keep track of your position on the screen by a read out showing the cursor position as a percentage of the x and y axes. It takes a bit of practice to feel totally at ease with this feature.

As you are putting the page together 'a bit at a time', it's difficult to plan ahead. While you are able to produce regularly sized columns for most of your page, it is a major achievement to do this right across its width. Luckily you can make your final column any size to use up the space

#### Start where you stop

When you have filled one window of text the program automatically takes a note of where you stopped in the text and will start there (or anywhere else that you specify) when you come to fill the next window.

Unfortunately there is no way to accurately calculate the length of an article on the page or how much of it you have used, so it would require a very complex trial and error process to, say, produce an article split evenly over four columns.

The A4 page is obviously too large to show on screen, but you can choose which part of the page you want to see any time by a rather lengthy process called setting the screen. You can also see a reduced version of the complete page to check the overall design and see what space you still have to fill. You position your text in a box on this small page and are then asked whether to clear the text already in that area (particularly handy if, heaven

forbid, you should make a mistake and want to start

It is not easy to position these boxes accurately, especially as it seems impossible to start text right at the top of the window.

You can have an open or closed box drawn round your text or draw lines on yourself using the art package. In fact the range of features you can use to brighten up your text is endless. For example a simple filled rectangle written over with reverse ink text makes an effective reverse block heading.



#### A picture or a thousand words

Where Newsdesk wins is in the way that you can use pictures. The simplest way to do this is to invest in an Electric Studio Snip Art disc with its wide variety of cartoon images to suit any situation. These can be customised using the art package or you can even create your own illustrations from scratch. The classiest way, of course, is to invest in a digitiser and snatch whatever image you want from video tape.

You can then take these pictures and squeeze them into the space available, even distorting them to fit should the need arise. When you are content you can then opt to save the page to disc or print it out.

One problem with desk-top publishing programs is the quality of the print. Hard copy is invariably produced using a built in screen dump facility. This is both time consuming and often produces a less than stunning result.

Taking this into account Newsdesk International produces surprisingly good results which can be improved further by taking a photo-copy. However it would perhaps be advisable to postpone launching your competitor to 8000 Plus until you can afford a laser printer.

#### Verdict

Those who already use Electric Light Studio products may well find this a natural upgrade. If you are the sort of person who wants to have complete control over page lay-out and produce a real work of art, this is a serious proposition. It's not recommended for people in a hurry, though.

PLUSES Complete control over all elements

in the page.

Can take digitised pictures

Good quality print

MINUSES Text handling slow and cumbersome

Menus can be confusing. Not easy to undo mis

\_

RANGE OF FEATURES PERFORMANCE DOCUMENTATION EASE OF USE

8000 PLUS VALUE VERDICT BEE



UniNet is a new concept in Local Area Networking providing an efficient, easy to install network ring compatible with many personal and mini-computers in current use. Starting with just two interfaces it is possible to expand the network ring to incorporate up to 127 stations, "Gateways" can be used to connect together as many rings as necessary so no physical limits are set on the maximum size of a system. The "gateway" can be a physical link via a modern allowing remote sta rings to be connected via conventional telephone lines

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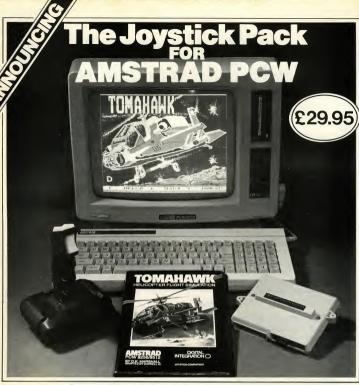
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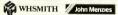
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# SAVE NOVENIA

Rainbird Software and 8000 Plus give you the chance to test your skills at zapping thousands of interesting aliens...FREE! Win one of 10 copies of Starglider in our simple but devious competition.



This month Rainbird Software have launched their new space game Starglider on the PCW - a traditional shoot em up with a real touch of class. And here is your chance to gain a commission in the Novenian air-force by winning a copy of the game in our simple competition.

Following their successful series of adventure games Rainbird have applied their talents to a graphic arcade game. But in line with the high intellectual standard of PCW users, they have produced a product that still taxes

In Starglider you are trying to save the planet Novenia from the attacks of the evil Egrons. By the miracle of vector graphics, your green screen is transformed into the cockpit of an Airborne Ground Attack Vehicle, no less, where you can see the baddies dance temptingly before your lasers and super missiles.

The Rainbird package also includes a novella and playguide to let you really eat, sleep and drink your role Prepare to be obsessed.

### TOO CLEVER BY HALF. **CURSE YOU**







To win one of the 10 games on offer you need to be able to use words - no problem to a PCW user. But to make it more difficult we are going to put one or two little restrictions on the words you use.

Do you remember those boring old quizzes where you had to put together as many words as possible using only the letters of the word Heliotrope?

Well in this month's competition we are interested to see how many words you can extract from

STARGLIDER. But then (to make it more interesting for us than reading 2000 lists of four letter words) we want you to write a sentence using only these words. For instance you could write 'STARGLIDER IS A REAL GAS'. It won't win, but you could write it.

Points will be given for originality, humour and logic. Why not aim to encapsulate the meaning of life in a humorous way? Shouldn't be that difficult, and to spur you on there are 40 runners-up prizes of elegant and valuable Starglider balsa wood throwing gliders.

Write your gems on postcards or the backs of envelopes (This is important - Ed) and send them to Starglider Competition, 8000 Plus, The Old Barn, Somerton, Somerset TAII 7PY

arrive no later than the 22nd of May 1987 and the winners will be announced in the July in is final and no correspondence will be entered into

# TRAINS, PLANES

Right on cue, Tony Flanagan takes the controls of a variety of craft this month.

#### STARGLIDER

----

£24.95 • Rainbird • 01 240 8838

Isn't it peculiar how planets are always being invaded by psychopathic aliens? Personally, I've never seen an alien. though I have had to look closely at my next door neighbour's children once or twice. In Starglider, the planet Novenia has been invaded by the Egrons who, as well as having the worst name in science fiction history, are bent on destruction. Well, who isn't these days?

As usual it's your task to sort these psychos out. Consequently, in this vector graphic flight simulation, you assume the role of pilot of an Airborne Ground Attack Vehicle (AGAV). This means that you can battle with

Playguide unnecessarily complex

MINUSES

LASTING APPEAL

VALUE VERDICT



both airborne and ground-based enemy craft

These take a number of forms. Some look like birds of prey, others like the Skywalkers in the Star Wars films. but there are at least another fifteen to contend with. All are well animated vector graphics of the type you might have seen in the Battle Zone tank game in the arcades Most awesome of all, however, is Starglider One which must be located and destroyed as you fly over Novenia's barren landscape.

Not surprisingly, the AGAV is supplied with three types of weapon: laser, missile and super-missile. The last of these is the most powerful but is only available when specific missions have been completed. Laser sights can be fixed or movable.

The AGAV can be rearmed by docking with rotating silos. This procedure is very tricky to say the least and requires excellent judgement and timing. Fortunately, the AGAV is very manoeuverable. Once inside, the silo's computer will provide extra information on enemy graft.

The instrument panel includes altimeter, radar scanner. energy level, shield status, velocity indicator and so on. The top of the screen details the AGAV's direction and your score, depending on how many of the enemy you have destroyed.

As with other Rainbird packages, this one includes a novella and a comprehensive playguide, and there is also a keyboard chart. The novella is not just cosmetic - it includes information about the range of enemy craft you have to contend with and gives precise details on how to dock with silos.

As a shoot 'em up (with a hint of strategy) this game is the best around. Excellent!

SNOOKSK

AMSTRAD PCW 8256/85IZ

oystick and Mouse options

#### STEVE DAVIS SNOOKER £14.95 • CDS • 0302 21134

I'm more of an Alex Higgins myself. There's something too clinically perfect about Steve Davis which always infuriates me. Didn't he once say that snooker was more important than sex? Perhaps he's got a point

The game includes Snooker, Pool and Billiards, and all three can be played either alone or with an opponent. They're all accompanied by simple but comprehensive playing instructions, covering the rules of each game and the controls.

In each of the three games, the table, balls and additional features are all neatly presented. The position of the cue ball and strikes are

cross, which is moved by using the cursor keys or, if you prefer, by joystick

At the bottom of the screen a bar indicates the power of each shot, which can be varied by pressing the appropriate key. There is also the option of putting a spin on the cue ball a magnified version of which is shown at bottom right of the screen. Again, by moving a little black cross you can choose exactly where you want the cue-tip to hit the cue ball. This enables you to screw back, up or indeed in any direction you like.

The screen also details the number of visits each player has made to the table, the colour of the ball he is attempting to hit and the break. At the top of the screen is a scoreboard which also indicates any foul shots.

The game's playability is in no way marred by the lack of colour. In the snooker game the reds are clearly distinguishable from the colours (which are numbered in accordance with their value). In pool, 'stripes' and 'spots' are clearly different; in billiards, different shades distinguish the three balls on the table.

As a pool player myself, I found the play realistic, demanding the same precise judgement required in the real game. The movement of the balls is as authentic as one can realistically expect - indeed, they're the roundest balls I've seen in a computer game of this kind.

If you fancy yourself as a snooker ace but haven't room in your garret for a full-size table, then Steve Davis Snooker should prove good value for money.

LUSES

PLUSES

Lots of atmos

GRAPHICS

**ADDICTIVENESS** 

Very playable

Easy to get into Almost as demanding as the real

GRAPHICS **ADDICTIVENESS** 

...  LASTING APPEAL VALUE VERDICT

Lousy title Where's the chalk?

MINUSES

----

46 8000 PLUS

This two-game package from Alligata presents the lighter and less demanding side of PCW gaming. In both, reflex action is more important than brain-power.

Blagger is a platform game in which you take on the role of Rodger the Dodger. As the name would suggest, Roger just can't keep his hands to himself, at least where money's concerned. In this game, he finds himself in the wealthy town of Umstrid (I know it well), a master-burelar's dream.

Of course, every house, shop and bank in Umstrid has its own safe where the nouveau riche et al have stashed their lovely loot. Roger can't resist!

The aim of the game is to open each of the twenty safe aim of the game is to open each of the twenty skeys. This is a tricky business to say the least. Moving platforms, disappearing staircases, and trip wires have to be negotiated. And there are also more human obstacles to contend with in the form of householders, nightwatchmen and security usurds.

To make things even more difficult, time is strictly limited. A bar, stretching across the bottom of the screen, indicates how much is left. Any mistake can set off the alarm which is simulated by a series of highpitched bleeps and a flashing screen. Every time it goes off poor old Roger loses one of his five lives. The graphics in this game are simple but effective. The keys are very responsive, which is just as they should be in a game where speed and timing are essential. (There is a joystick option if you prefer.)

Guardian is a fast action shoot em' up. As a fighter pilot, it's your job to defend the planet below from swarms of less than friendly aliens. Their intent is to capture the waving humanoids scattered across the planet's bleak landscape.

Points are awarded for destroying enemy ships. These come in a variety of forms - landers, mutants, pods, swarmers and baiters - and have different functions. Part of your job is to pick up humanoids from the planet surface as well as rescuing them from the landers which attempt to carry them off.

Guardian is less demanding and therefore a less interesting game than Blagger. The play is monotonous and the stark screen doesn't help. Both games provide a pleasant diversion from more taxing stuff but with games like Starglider around I know which I'd spend my moneyon.



USES MINUSES
Responsive keys Readily playable Graphics are too abstract
Simple objectives

GRAPHICS BEGOOD

LASTING APPEAL VALUE VERDICT

# HEATHROW AIR TRAFFIC CONTROL/SOUTHERN BELLE £16.95 • Hewson • 56b Milton Trading Estate, Milton, Abingdon, Oxon OX 14 4RX

If you're the kind of person that likes to be in control, then these two excellent simulations might be just what you've been looking for.

In the first you find yourself in the control tower at Heathrow Airport with sole responsibility for landing all incoming aircraft - no mean task by any standards! Not only do you have to handle a variety of data, but your decisions have to be of the highest order. Make a mistake and its Airport II all Jover again.

The screen is excellently presented, managing to convey all the information necessary for the job both clearly and concisely. In the centre is the radar screen which displays Heathrow Airport and the landing runway. Surrounding that are four stacks which are circled by aircraft waiting to land. Aeroplanes are identified as white blocks with a trail of dots.

The communication link with aircraft is displayed at the bottom of the screen where altitude, direction and speed instructions can be given.

There are eight levels which get successively more difficult and present the player with different problems: from coping with mixed traffic to emergency landings.

Southern Belle takes you back to the 1930s and puts you in control of a King Arthur class steam locomotive. Your task as fireman and driver is to take the London to Brighton run, 50+ miles in all.

The centre of the screen displays a view of the cab and controls, and the line ahead. Graphically, this is nicely done, though the landscape you pass through is depressingly barren. The rest of the screen provides control information: speed, distance, signal, gradient, coal and water.

There are seven levels in all, from a slow training run to faster ones where the problems you encounter are harder to deal with.

Games of this kind will no doubt appeal to aviation and steam locomotive enthusiasts, and their potential in the classroom cannot be ignored either. But their appeal beyond that is questionable. Personally, I toud them a little too dry.

▼ The Southern Belle at the beginning of her journey. I wonder if customer service was



USES MINUSES:

Relatively simple and concise

Foresentation of complex
information

Cerebrally, very testing

Comprehensive instruction manual Good HELP facility

GRAPHICS BUILDER
ADDICTIVENESS BUILDER

LASTING APPEAL
VALUE VERDICT

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8000 PLUS 47

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he HELP utility is a program on side 4 of the system discs which provides helpful information (hence the name) about how to use the CP/M. commands and other programs supplied with the machine. You can use it from the CP/M A > prompt in two ways: make sure you have your copy of side 4 of the master discs in the current disc drive and type A>HELP

A>HELP topic

The first one gives a list of the topics available, and the second gives details on a specific topic once you know what you are looking for. In practice, the information you get out of HELP as it is supplied is rather terse, and you will probably find it more confusing than the manual unless you understand the jargon.

Having read about a particular topic, there are several things you can do. Typing a full stop will redisplay what you have just read; typing a question mark produces a list of what's available. The program may list some subtopics which go into more detail. To read about one of these, type a full stop followed by the name of the subtopic. It is even possible to specify the subtopic directly from the A> prompt, for example HELPPIPOPTIONS where 'PIP' is the topic and 'OPTIONS' is the subtopic.



#### ▲ The standard HELP topics using Amstrad's supplied data

Try out an example: load up CP/M, type HELP and then D I R as the topic. Once the program has displayed the relevant information, it gives two subtopics for your perusal - BUILT-IN and WITHOPTIONS - and then gives a HELP> prompt. This means much the same thing as the A> prompt in CP/M, ie. 'type something here'. but reminds you that you are still in the HELP program.

Now type . W to select the second subtopic (the program only requires as many letters as are needed to distinguish between the possible options). See how this subtopic is divided still further into OPTIONS or EXAMPLES, and that the 'path' taken to reach this point. is given at the top left of the screen. Typing either . 0 or . E would take you further along this path, whereas typing a topic without a full stop starts you off from the beginning again. Pressing [RETURN] without typing anything finishes a help session and returns you to CP/M.

#### Optional advice

An 'Option' is an instruction to the program to do something differently. Options are selected by enclosing

them in square brackets, []. For example: A>HELP FILENAMES [NOPAGE]

There are two options that can be given when looking something up in the help file - NOPAGE or LIST. Only one may be used at a time, and the topic must also be

The NOPAGE option makes the program display a whole topic at once, rather than displaying a screenful of information and then prompting you to press [RETURN]. The LIST option is the one to use if you want a printed copy. It stops the "Press RETURN" message and also cuts out gratuitous form feeds. It does not however send data to the printer: you must do that by pressing [ALT]+P.

# DIY DATABASE

Chris Lilley discovers how to build his own database using the PCW's standard HELP command

The HELP program on Side 4 of the Amstrad master discs works like an electronic manual about CP/M. With a little cunning you can actually make up your own text storage database about anything you want, from recipes to part catalogues and instruction books. Watch out for the country's database salesman piling up at the foot of Beachy Head.

Options only work for the current Help request. You must specify the option [NOPAGE] on every Help command you give, if you want it, since it reverts to the the default after each

Rolling your own

Although the main part of CP/M is standardised. manufacturers are free to add on their own extras to it For example Amstrad added DISCKIT and SETKEYS. To allow the HELP file to be updated to include these new commands, there are a further two little-known options EXTRACT and CREATE

# The good style guide

sticking to a few simple rules will make simpler for you and others to use ► Choose names that differ in the first few letters, to make selection of suboptions easier. Avoid jargon terms, abbreviations and punctuation. Compare the 'Cartridge' topic in the HiFi example, which does badly on all these points, with the 'Amplifier' topic. Notice how the text leads on to explain what the subtopics are about ► ASCII codes greater than 128 will

print graphics on the screen. How you get them into your text file depends on the word processor you use to create it. If you experiment, you can draw boxes and diagrams in your text. To print out an entire help file, don't use the LIST option as it only prints a single topic. Use the command HELP

TRACT] to make a text file, then load it into a wordprocessor to remove all the '//x' stuff and generally pretty up the layout. Print like any other file.

All the text used by the program HELP.COM is stored in a file called HELP.HLP. This file is specially coded, and you can't get at any of the 75k's worth of information except by using the HELP command. However, the command HELP [EXTRACT] takes the file HELP.HLP and from it produces a file HELP DAT which contains the help data in a form that can be edited in a wordprocessor. HELP.HLP must be on the default drive, irrespective of which drive HELP.COM loaded from Having edited the file, you can create a new HELP.HLP with the command HELP [CREATE]. Creating a new HELP.HLP file overwrites the old one without asking if

This is where it starts to get interesting, because using the CREATE option you can create your own HELP text, which needn't be anything to do with CP/M at all.

Suppose a HiFi shop wanted to produce an aid for its newer members of staff. A sound system is composed of several pieces of equipment, each of which can be divided into several component parts; some of these may be further subdivided. This is the ideal kind of application for a Help file, as shown in the diagram. The row of three boxes represents the topics that will appear on-screen >



▲ The hierarchy of a HiFi system, which is ideal for putting into a HELP file

This is the centre of the system, and is in two parts:

A power amp makes the signal larger to control the speakers.

Selection of records, tape or tuner is done from the preamp.

It also controls the volume and tone.

///IRecordPlayer
Despite cassettes and compact disc, LP's are still the most common means of providing music.

The arm allows the cartridge to move over the record.

My converting movement of the 'needle' into electrical Signals, the cartridge supplies a music signal for the preamp.

3 N N Moving magnet cartridges will work with any amplifier.

Moving coil cartridges may need a special transformer or headamp to work with a standard amplifier. //2Turnable This provides a platform for the arm, and rotates the record.

//1Speakers A pair of speakers allow you to hear the music!

▲ The text for the HiFi shop's example HELP DAT file

when the program starts. If these are called 'level 1' then the next row of boxes is level 2 and represents the subtopics. The bottom row is level 3 in this example, although the HELP program can handle up to 9 levels.

"I'd like to buy a gramophone"

Turning to the listing, you can see how to represent this information. To use the example worked through here. create a file called HELP.DAT using, for example, the 'non-document' mode in Wordstar. If you use LocoScript, select the 'simple text file' option from the 'Make ASCII file' menu on [f7]. Now type in the example text into the file. Look at the first line; firstly there are three slashes. These are not printed but indicate to the program that the name of a topic is coming up.

Then there is a single number, which is the 'level'. followed by the name of the topic. Notice that there are no spaces between the number and the name, which can be up to 12 characters - including numbers and spaces. Any excess characters on that line are printed as part of the text. The information associated with that topic follows on the next line. This can be of any length, from a single word to several pages. The end of the text is marked by a line starting with three slashes, or the end of the document.

After the 'Amplifier' topic is its first subtopic, so the name is preceded by '///2'. There are no further levels on the diagram, so this is followed by the next level two topic. That being the end of this 'branch' on the diagram, we move on to the next level I topic. Follow through the rest of this example, comparing it to the diagram.

To convert this file, which must be called HELP.DAT, into the HELP.HLP file, you must have it on a disc which has enough free space for another file which will be slightly bigger. For example, if your HELP.DAT is 21k long, you must have 22k free on the disc before you start. When converting from one to the other, the .DAT and .HLP files must be on the same disc, and this must be the default drive

This limits the size of file you can make to around 85k on a PCW 8256, or 320k on an 8512. Allow an extra 1k for each 64 topics or subtopics. In this small example, disc space will not be a problem! After making sure that the original Amstrad HELP.HLP is not on the same disc, type the command

HELD FORENTET

Topics need not be in alphabetical order - look at the screen dump of the standard HELP listing file where 'COMMANDS' is before 'CNTRLCHARS', Sticking to an alphabetical scheme does however make things neat and easy to use. Duplicate topics do not generate any errors. but you can only select the first instance of the topic. The same subtopic name can be used with several different topics.

The text you put in the Help database can contain any character you can type (ASCII codes from 32 to 255), but don't use control codes below 32 to try and get fancy effects to move the cursor as they can mess up the indexing

The HELP.COM file can be renamed to suit yourself. but the database file must be called HELP.HLP, so the one you make must be on a different disc to the one you get free. Alterations to the HELP.HLP file may be made by the command HELP [EXTRACT] to convert it to a DAT format; however it is easier to keep a copy of the original HELP.DAT text file and edit that

What can go wrong

If you don't get things just right, you are bound to get a typically cryptic CP/M error message. Most errors are due to simple things like using the wrong drive or not having enough room on disc. A couple need some explanation:

No HELP.HLP file on the default drive:

This error message is badly worded. It is trying to say that both HELP.COM and HELP.HLP must be on the same disc. Whether this disc is the default one is irrelevant.

Too many entries in Index Table. Not enough memory: The upper limit for index entries is around 1100 entries you are likely to run out of disc space before this limit becomes a problem. However, the Help program will happily allow you to CREATE a help file with too many index entries, and only inform you of the mistake when you try to use it!

▼ Using the HiFi shop's custom-built help system

MELP STILLITY VI.1 at "HELP)" enter topic (,subtopic)...

EXMIPLE: HELP) DIR BUILT-IN Tomics awailable:

AMPLIFIER RECORDPLAYER SPEAKERS

HELP) RECORDPLAYER

Pespite cassettes and compact disc, LP's are still the most common means of providing masic.

ENTER . Subtopic FOR INFORMATION ON THE FOLLOWING SUBTOPICS: CARTRIDGE TURNTABLE

RELP)

By converting the novement of the 'needle' into electrical signals, the cartridge supplies a music signal for the pre-ENTER .subtopic FOR INFORMATION ON THE FOLLOWING SUBTOPICS: H.H. H.C.

HELP)



Moving coil cartridges may need a special transfermer or headamp to work with a standard amplifier. ELP)

The Help messages are stored at 0140h to 0583h. and they can be edited as long as the start address of ach message is not altered The 'HELP -' prompt is at 04A1h to 04A6h, and the introductory blurb is at 04C0h to 052Fh.

Hacker note

If you don't like the blurb or

error messages HELP gives

you, you can change them

alter the file HELP COM

by using SID to directl

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# LETT

In his final article, John Hughes ties strings together and puts them into loops

> n part 4 we saw it was possible to join string variables together - to concatenate them - by putting a plus sign, '+', in between the variable names. turning "Good" and "morning" into "Goodmorning", for example. In this article we shall look at some of the other things which can be done with strings, and the different techniques which Locomotive BASIC offers for handling them

> To begin with, we shall look at the sort of comparisons which BASIC can perform on strings. Program I shows how a very simple comparison can be performed; two strings are input and are then compared with each other. and the program prints a suitable message to say whether they match.

The actual comparison is done in Line 60, using a simple IF command, extended with the ELSE keyword. which means 'otherwise' - that is, if the first string is the same as the second string, then the program will print 'They're the same'; otherwise it will print 'They're different'

Type in the program and try it out to see how it works. There's actually no need to restrict yourself to single words, because a string can be of any length up to 255 characters. After a few tries, you'll realise that in BASIC, strings are 'equal' only if they are precisely the

10 REM Program to compare strings 20 PRINT "Type in a word" 30 INPUT FIRSTS 40 PRINT "Type another word" 50 INPUT SECONDS

60 IF FIRSTS-SECONDS THEN PRINT "They're the same" ELSE PRINT

ZO END

60 IF FIRSTS SECONDS THEN PRINT "The first string is less than the

Program I

same in every way. The slightest difference, such as an extra space, or even using lower case letters instead of capitals, and BASIC will see them as different.

#### "TO BE" is less than "to be"

If strings are equal, can they also be 'less than' or 'greater than' each other? The answer is that they can, as you will see if you modify Line 60 of Program 1 to read as follows: 60 IF FIRST\$ < SECOND\$ THEN PRINT "The first string is less than the second" (You may remember that the symbol '<' means 'less than'.)

Try the modified program out with a few pairs of single letters, such as 'a' and 'A', and 'A' and 'B', and then with pairs of words such as FRED and FREDA. The more you experiment with this, the more you will find out about how BASIC handles strings, so don't be tempted to rush things.

When you have finished your explorations, you will probably have discovered that BASIC has three main rules for comparing characters; basically, capital letters are always 'less than' lower case letters; between pairs of letters which are both capitals or both lower case the earlier the letter comes in the alphabet, the lower its value; and between words such as FRED and FREDA, the shorter word is 'less than' the longer one.

The explanation for all these rules is simple enough: every character is assigned a special number called its ASCII number; ASCII (pronounced 'Askey') stands for the American Standard Code for Information Interchange, and a copy of the code is printed here.

What BASIC really means by a character being 'less' than another character is that its ASCII Code is less than the ASCII Code of the second character. A string is equal to another string if every ASCII code in each string is the eame

#### ASC and CHR\$

There are two related keywords which are very useful in handling characters; they are ASC (which is obviously an abbreviation for ASCII) and CHR\$

If you look at the listing of the ASCII printable characters, you will see that it was produced by using a FOR-NEXT loop and CHR\$, CHR\$ is almost always used with PRINT, and the function outputs the character whose ASCII value is put in brackets after the keyword.

For example, PRINT CHR\$ (65) will put a capital 'A' onto the screen; PRINT CHR\$ (42) will output an asterisk, and so on. You can output 'non-printable' characters in the same way; PRINT CHR\$ (7) will make the speaker beep, for example, and PRINT

# **ASCII** nicely

The ASCII Code is one of the few real international standards in computing; big computers sometimes go their own way, but micros like the PCW almost invariably follow it.

Every printable character is assigned its own number between 32 and 127, and numbers below 32 are allotted to 'control characters' such as LF (Line Feed), CR (Carriage Return) and BEL (the Bell). You can get to some of these directly from BASIC; try PRINT CHR\$ (7) and the Bell (actually the bleeper) will sound; 7 is the ASCII Code

Many systems use codes between 127

and 256 for their own purposes; these aren't true ASCII, so they vary between different makes of computer; they are often used for accented characters, Greek letters and the like: even the Pound sign is a non-standard character, because ASCII is an American code, and they never bothered to incorporate foreign currency symbols!

Character 127 is something of a maverick too; many computers print it either as a blank, a black rectangle or a chequer pattern, but the PCWs print it as a zero, as you can see.

```
10 PRINT "Input a string in small letters"
20 INPUT YOURS
30 MYS=UPPERS (YOURS)
40 PRINT "You typed "; MYS
```

Program 2

CHR\$ (13) has the same effect as pressing [RETURN]. Before you experiment too much with this, make sure that you have saved any program you have been working on onto disc, because some of these non-printable characters have special meanings and can cause some odd cido-offects

ASC is used to find out what the ASCII code of any specified character is; it is thus the complement of CHR\$. The form of it is PRINT ASC(string) where s t r i n g is any character or group of characters. What will be printed out is the ASCII Code of the character in the brackets - or the value of the first character, if there are more than one.

For example, to find out the ASCII value of '&' you would type PRINT ASC("&") and to find the code of 'A' you would type PRINT ASC("A"). It is very easy to get ASC and CHR\$ mixed up with each other, so don't worry too much if you find that you confuse them at first.

Going up to the Capital

We humans treat upper and lower case characters like "b" and "B" as substantially the same and the fact that BASIC does not handle them in this way can be rather a nuisance at times

```
50 ANSWERS-UPPERS(INKEY$): IF ANSWER$="" THEN 50
                                       Program 3
```

We have already seen one example of this sort of problem in Program 4 of the fourth part of this series. You may remember that we asked whether a particular list was to be output on the printer or not, and then tested whether either "y" or "Y" had been pressed. This rather clumsy approach is necessary because a user of the program might press "Y" and have their entry misunderstood if the program was arranged only to accept "y".

Fortunately, BASIC has a pair of commands with which strings can easily be changed into either upper or lower case letters. The two commands are UPPER\$ and LOWER\$. The first converts a string to capital letters, and the second converts a string to lower case; characters other than letters are not affected by these commands.

The way they work is shown in Program 2; this asks for an input in lower case letters, and promptly converts this into capitals before printing it. Any characters which were in upper case to begin with are unaffected.

Look at the syntax of the UPPER\$ command to see how it works - the name of the string to be converted is enclosed in brackets immediately following the keyword UPPER\$. LOWER\$ is used in exactly the same way, so you should find it easy to rewrite the program to use it.

UPPER\$ and LOWER\$ are particularly useful in alphabetical sorts - perhaps in a payroll program or perhaps as a preparation to carrying out a spelling check on a document. You can also use them when testing for a response of the 'Press 'Y' to print the document' type. Program 3 shows what a segment of such a program might look like.

#### On the menu

Menus, as you will certainly be aware if you have used LocoScript, are not just semi-fictional descriptions in dubious French of the dishes a restaurant is trying to unload on its clientele. Rather, they are lists of all the options available to you at some point in a computer program.

There are two ways of making a choice from a menu. Either a cursor bar is moved up and down the menu to rest on the desired option (as in LocoScript), or the user is asked to enter a letter or number corresponding to the required choice.

Program 4 shows how a menu might be used as part of a program; don't let the extreme simplicity of this menu it only has two choices! - blind you to the way it works.

First of all, a FOR-NEXT loop has been used to print ten blank lines in order to position the menu tidily in the middle of the screen. This may seem rather unnecessary, but a tidy screen display is one of the hallmarks of professional programming. In the same way, the two options have been tidily spaced in from the left edge of the screen. And note the prompt at the bottom, so that you are in no doubt at all about what you are meant to do.



Only single-key responses are required, so we have used INKEYS: this simplifies things for the non-expert, who doesn't need to remember to press [RETURN]. If no key is pressed, the program will circle round Line 140 waiting for a key. When a key is finally pressed, the value of it is converted to upper case by UPPER\$; this makes the comparisons in Lines 150 and 160 easier to program.

There is also a 'mug trap' in Line 170 to catch the wise guy who presses neither the "E" nor the "L"; if neither of these keys is pressed, the control goes back to Line 140, and another key press can be made.

This program won't work properly as it stands, simply because Lines 200 and 1000 are missing, so there is nowhere for it to go if "E" or "L" is pressed; but apart from that it is quite OK, and should give you a sensible structure for your own menus.

Incidentally, the Leave Program option could just have an END command in Line 160. However, it makes a program much easier to follow if the END statement is placed at the end of the program.

#### Goodbye

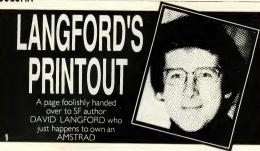
This completes John Hughes' BASIC series. Further instruction can be found in the Listings section each month, and specific language topics will continue to be covered on an occasional basis

```
10 REM A Sample Menu
  CLS$=CHR$(27)+"E"+CHR$(27)+"H"
  PRINT CLSS
  FOR POSITION% = 1 TO 10
70 NEXT
                                              Enter Data"
  PRINT "
                                               Leave Program"
110 PRINT
                      Press the appropriate letter to make
190 PRINT "
your choice"
140 answers=UPPERs(INKEYs): IF ANSWERS="" THEN 140
150 IF ANSWERS-"L" THEN 1000:REM leaving program for entering data
                                                             Program 4
```

# Round Up

In the last six parts of BASIC PLUS, we've started from scratch with loading Mallard BASIC and using it as a calculator in 'immediate' mode. Since then we've covered the following topics:

- The BASIC line editor
- The use of variables, and how to display their contents on the screen
- Taking input from the user of your
- ing, running and saving a BASIC program Remarks, and how to make them
- nobtrusively Branching from one place in a
- program to another
- ▶ The difference between strings of characters and numbers, both
- integer and real Passing through a section of
- program more than once looping Comparing and manipulating strings
- ► The ASCII code system for computer characters Creating a 'menu' within a program to handle multiple choices



ast issue I tried to be provocative and have duly received S,271,009 outraged letters from those who felt insulted - ie all software dealers, all software users, and most small-press publishers. I didn't mean to offend the latter: the point was that very small publishers can't afford economies of scale and have to charge more than one might expect. Little did your columnist realise that one of the Old Barn hacks was also part of the tiny but classy SF publishing outfit Kerosina Books, Ben Taylor has gently remonstrated with me: I expect to be out of hospital any week now

After explaining last issue how to irritate the people who flog software, it's only fair to tell them how to annoy you right back. Here, then, are ten tried and tested ways. Mind you, I have this terrible suspicion that the big software dealers know them all already...

J) With PCW programs, always send the manual for the IBM version. A good play is to include a note saying, approximately. Because you bought a miserable cheapo computer, you cannot use the triffic features described in chapters 7-15 inclusive. A sprinkling of references to PC. DOS (the IBM operating system) commands will complete the process of demoralization.

2) When someone rings your Techmical Support department, always put them on hold for at least twenty minutes and play horrible tinkly music to them. Since few people can afford Musak at peak telephone rates, this weeds out a lot of time-wasting queries.

 Always put at least two files on the disc which aren't mentioned in the manual (and omit one that is). Keep the customer worried and off-balance.

# TURNING THE TABLES

4) Never call a bug a bug. Good alternatives are: 'disc drive fault'. probable user error' and 'quirk of CPM'. When conrend, fall but, on 'undocumented feature'. This last term arises from the well-known fact that as soon as a bug is documented in the manual, it becomes a feature. Thus: 'Ar. convenient feature of the Grottyscript word processor is that you can reset the computer to power-on status at any time by simply pressing the space bay'.

S) Establish dominance by making it clear to the customer that he or she is very ignorant.
"You mean you've been using the PCW for three whole weeks and still don't know about RS-23; interface disc compiler mode I/O synchronicity overlay protocol debug incompatibility! We do have to assume some elementary knowledge, you know..."

6) Be suspicious! This fellow who's rung with all the awkward questions obviously can't be a bona-fide user of your software if he's unable to quote (from memory) the full 64-character registration reference included with each package. Of course it hardly needs to be mentioned that his reference should be on a small.

separate, easily mislaid piece of tissue paper, about the size of a bus ticket.

Waiting for Godot

or rather, waiting for Loco.

By the time the 8000 Pills his the stands I hope to know the stands I hope to know the green to the commenting piece on LocoScript 2. Locomotive's marketing piece on LocoScript 2 and the stands of the stands of

7) Point out that although your advertisement to indeed promite full releptione support and advice, available 24 hours a day, the technical support team lives at the head office. "Just dail this Los Angeles number..." It's equally useful to misst that free program upgrades (i.e. to improved versions where the bugs have been curied or at least moved around a bit) are available only on sending the

original disc and manual, in the original massive box, by registered air mail to Cincinnati.

8) A refinement of point (3) is to omit a vital step from the manual "It is essential to press SHIFT-EXIT-PASTE twice and give a Masonic handshake in order to exit the Smartass information menu") and hide it in a disc file. Most people have sussed READ MF files. so call it something like PRGMANI.MSG and don't use LocoScript format. The standard format for such files is WordStar's since the ASCII text will then be full of funny characters which make it unreadable to non-WordStar users, har har

9) Why waste time looking for bugs in your programs when thousands of customers are eagen thousands of customers are eagen to do it for you? If the accounts package doesn't round up the VAT properly, try it on the public anyway; there's always the chance that no-one will notice, in which case you needn't correct the program. At least, not until the VAT inspector has hauled a few customers off to pail: but there are plenty more where they came from.

10) The Amstrad manuals tell people how to run SET24X80 load the specialist keyboard needed by your software, and use the CP/M program PIP to copy stuff to the M: disc as also required by your software. People with quite poor degrees in computer science have often been able to master the manual's descriptions of these processes in as little as six months. So when producing your own instructions, there's no need to explain how any of this is done. Paper costs money. Your ideal is a manual which will fit on one side of A4. Indeed, 'Run the program' should be enough for anyone: after all, your software is selfexplanatory, with lots of helpful messages like 'ERROR TYPE B34F DISK CALL BOOS ??? FILE mm \$\$\$ Aborted'

These ten points are easy to master, and when you've done so you'll be well on the way to being a real, professional software manufacturer. Of course there are many further subtleties, like the importance of advertising your new product and getting in lots of cash orders before you start writing the program; but such techniques of 'Advanced Cliveism' are beyond the scope of an elementary article. Fair's fair. I've demonstrated how to annoy both dealers and customers. Next month we'll discuss methods of annoying computer magazine editors. (/ don't know whether I can narrow it down to 10 - Ed.)

56 8000 PILIS

# ON RITMAN AND BERNIE DRUMMOND RESENT DOUBLE TROUBLE...



Hi! My name's Mr. Head. Some say I'm the one with the V brains but I don't think my fla friend would agree. I'm a real sharp shooter, but without my pal Mr. Heels I'd get nowhere brains but I don't think my flat footed fast...or slow! I can jump like a flea and even glide but Heels is the Daley Thompson of the two of us – he's FASTI Together, if we can find each other, we really do make an awasome twosome, and that's the only way we can overcome the emperor Blacktooth. The last time we entered Castle Blacktooth we found the crowns of THREE blacktoom. The last time we entered castle blacktoom we found in ecclosives of THREE of the supressed kingdoms but by that time Id run out of doughnut ammunition and my buddy was lost somewhere in the Safari world – it was the closest we had come to defeating that apscallion – we were jumping for joy, splitting our sides, dying with

laughter...we were Head over Heels!

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# TWO COLUMN TWO BY T

#### by Alan Hepworth

After several TIPOFFS on printing a Locoscript document in two columns, here is a BASIC solution from Alan Hepworth of Radstock. The program takes your Locoscript document and prints it in two columns in one run. More importantly, it comes out perfectly aligned (not easy with the old dual pass method) and even prints the correct page number at the bottom

The listing works on an ASCII file, so you lose all Locoscript's fancy type commands, but you can't expect everything from 47 lines of Basic. Type in the listing and save it to disc before preparing your LocoScript document

It's a good idea to start by creating a TEMPLATE.STD for a new Locoscript group to keep all your double column writing in. Create a document called TEMPLATE.STD and press [f7] twice. The menu that appears asks about page lengths. Set the page length to 66. the header zone to 0 :Position I and the footer zone to 11 : Position 62. This should give a page body of 55. EXIT from this menu and press f1 to set the layout. Set

Build your own columns with our two-column printer, or illustrate your thesis with a graph.

the margins to 0 and 37 and the pitch to 12 and the template is complete

Write your article without bold, underlining or anything fancy like that and make sure the last line of your document isn't blank.

Save it and then use [f7] to 'Create an ASCII file', making sure to choose the 'Page Image' option and save the resulting file in group 0 (CP/M, and therefore BASIC. normally only deal with files in this group).

Load BASIC and run the program. It will ask for the LocoScript file name and the number of lines on the page (between one and 55). You have the choice of printing out immediately or seeing it on screen first to make sure it looks right (use [ALT]S to stop and continue the scrolling). The program is set to Draft Elite but you can set Near Letter Quality in the normal way, using [PTR]

```
10 CLEAR : escs=CHRS(27) : clsS=escS+"E"+escS+"H"
20 LPRINT escS,"e", escS, "A", escS, "A"
30 PRINT clsS, "TWO COLUMN PRINT OF A LOCOSCRIPT PAGE IMAGE ASCII FILE"
40 PRINT : IFFUTFIlename = ", names"
50 IF FIRBS Assessi
            100 IF selects = "V" OR selects = "P" THEN 110 ELSE 90
            110 PRINT clss: PRINT Opening file :- "; names : PRINT
            120 IF select$="P" THEN GOSUB 400
            130
            140 lines=0 : page=1 :OPEN "I", 1, name$
            150 DIN as (110)
            160 WHILE NOT EOF(1) AND lines ( num#2
            170 lines=lines+1
            180 LINE INPUT #1, a$(lines)
            190 IF LEFTs (a$ (lines), 1)=CHR$ (12) THEN GOSUB 430
0
            200 WEND
            210 lines=lines-1
            220 IF lines ( (num * 2) THEN GOSUB 460
230 IF num=0 THEN CLOSE 1 : ERASE as : GOSUB 410 : GOTO 330
            240 FOR x=1 TO num
            250 PRINT TAB(5)as(x); TAB(45)as(x+num)
            260 NEXT x
            270 IF selects="V" THEN PRINT: GOTO 290
            280 FOR k=1 TO 57-num: PRINT: NEXT k
            290 PRINT TAB(41-(page ( 10))page; CHR$(12)
            300 lines=0 : page=page+1 : ERASE as
            310 GOTO 150
            320
            320)
320 PRINT*Press R to re-use same file, E for a new file, or F to finish*
340 zzz-UPPRES(IMKERS): IF zzz=** THEN 340
350 IF zzz=** THEN FRINT clos: FRINT*Filename = ",name$: GOTO 60
350 IF zzz=** THEN FRINT clos: YEV
            380 GOTO 340
            390
            400 POKE 8793, 234 : RETURN
            410 POKE 8793, 239 : RETURN
            420
            430 c%=LEN(a$(lines))-1
            440 a$(lines)=RIGHT$(a$(lines),c%): RETURN
            450
            460 num=INT(lines/2)
470 IF lines/2 <> num THEN num=num+1
            480 RETURN
```

### **GRAPHS PACKAGE**

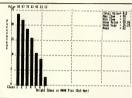
#### by W Derrick

If a picture is worth a thousand words then a graph of your data must be worth a couple of thousand (we don't pay for graphs, though -Ed). We know you don't like your listings too long but here is a graphs program that may be worth the effort.

The only way to get a hard copy is to take a screen dump (EXTRA and PrA) and perhaps the labelling is a little limited, but it does provide an easy-to-use method of producing bar charts, scatter graphs or distribution curves that looks impressive on screen and in print. The graphs show each entry as a percentage of the total and various statistics, including average percentage, total, average and mean, are shown grouped in the top right hand corner of the display. You could use this program as a but-noutine in your own programs to churn out figures in a really rofessional form

The program is very easy to use, but remember not to use negative numbers or numbers over 99. As you can

see, the listing is rather complicated, but if you take care and work through it systematically you will be delighted with the results.



```
10 e$=CHR$(27):cls$=e$+"E"+e$+"H":wh=0:p$=e$+"Y":rv$=e$+CHR$(112):xrv$=e$+CHR$(113)
0
           20 PRINT clss:PRINT es;"f";es;"0"
30 LINE INPUT "Graph Title (max 80 ch'ters) ",ts
40 PRINT es; "f";es;"0"
           **SO PRINT: IMPUT "Sumber of items (max 25) ",n:PRINT clss: DIM a(n),b(n)
60 PRINT "Do you want (B)ar Chart - (S)catter Graph - (D)istribution Curve? ";
70 %=[NPUTS(1):x=5-UPERS(wS)]
Q
            80 IF ws="B" OR ws="S" OR ws="D" THEN PRINT class:GOTO 90 ELSE PRINT class:GOTO 60
            90 PRINT "Entry of data ": PRINT: FOR x=1 TO n: PRINT" Item no ":x:
            100 IMPUT "", a(x): b(x)=a(x): wh=wh+a(x): NEXT
a
            110 PRINT clas: IF ws="p" THEN GOSUB 420
120 FOR x=1 TO n:PRINT ps; CHRs(32); CHRs(40); "Value"; ps; CHRs(32); CHRs(42+3*x); b(x); NEXT
            130 FOR q=1 TO n:a(q)=INT((a(q)/wh)*100):NEXT
            140 FOR m=1 TO n:hp=MAX(hp,a(m)):NEXT
            150 IF hp<25 THEN rg=25 f=1
160 IF hp>=25 AND hp<50 THEN rg=50:f=2
170 IF hp>=50 AND hp<75 THEN rg=75:f=3
           170 IF physio ABD bp("0 that rgs"[0:12")
100 IF bp("0:12")
100 IF bp("0:12")
100 rb(0):FOR m=1 TO nin-MAMI(b,b(m)):z=MIN(c,b(m)):MEXI:IF rg(=50 THEN rgr=5 ELSE rgr=10
100 rb(0):FOR m=1 TO nin-MAMI(b,b(m)):z=MIN(c,b(m)):MEXI:IF rg(=50 THEN rgr=5 ELSE rgr=10
100 FOR rc=32 TO 56 SITES FOR both 10 TO 90 FRINT ph(CHEN (c7)(CHEN (c2)+b):"," | MEXI:MEXI
210 FOR cc=42 TO 122 SITEP 20:FOR bb=1 TO 25:FRINT ph(CHEN (c2)+b):(CHEN (c2)+i"," | MEXI:MEXI
Q
Q
           220 FOR bb=1 TO 26 STEP rgr:PRINT ps;CHRs(32+bb);CHRs(42-1);rg-((bb-1)*4*rg/100):NEXT 230 IF ws="B" THEN 240 ELSE IF ws="S" THEN 270 ELSE 290
Q
            240 FOR x=1 TO n: FOR r=(58-((INT(a(x)/f))+0.5)) TO 58
            250 PRINT rvs; ps; CHRs(r); CHRs(42+1+3*x); " ": NEXT: PRINT xrvs: NEXT
           260 GDSUB 470: GOTO 370
           270 FOR x=1 TO n:r=(58-((INT(a(x)/f))+0.5)):PRINT p$;CHR$(r);CHR$(42+1+3*x);"*":NEXT 280 GDSUB 470:GOTO 370
           a
           JSO FRINT CHR8(38);CHR8(103); "Avge Value - "USING "##.##";Mn/n:FRINI ps.
330 FRINT CHR8(38);CHR8(103); "Mage Vage - "USING "##.##";(wh/n)*100/wh
340 FRINT ps.CHR8(39);CHR8(103); "Magn Value = "!bfu/2)
350 FDR x=1 TO n:FDR "m(58-(URIC(x)f/1)-0.5)) TO 58
            360 PRINT rvs; ps; CHRs(r); CHRs(43+3*x); ":NEXT: PRINT xrvs: NEXT
370 FOR x=1 TO n: PRINT ps; CHRs(32+27); CHRs(42+3*x); x: NEXT
            380 FOR t=5 TO LEN("Percentage")+5: PRINT ps: CHRs(32+t); CHRs(39): MIDs("Percentage", (t-4), 1): NEXT
            390 PRINT Ps; CHRs (32+27); CHRs (40); "Class"
            400 PRINT ps; CHRs (32+28); CHRs (32+(INT((90-LEN(ts))/2))); ts; es; "e"
            410 PND
            420 s=1:flag=1
            430 WHILE flag=1 AND s(n:flag=0
a
           440 FOR v=1 TO n-1 :IF a(v)(a(v+1) THEN SWAP a(v),a(v+1):SWAP b(v),b(v+1):flag=1
           450 NEXT: s=s+1
           460 WEND : RETURN
           400 #201 includes (34); CHRs(103); "Total Values"; wh; ps;
440 #2187 GHSS (35); CHRS(103); "Max Hen = "h; ps;
400 #2187 GHSS (35); CHRS(103); "Max Hen = "h; ps;
500 #2187 GHSS (35); CHRS(103); "May fee "h; z; ps;
500 #2187 GHSS (37); CHRS(103); "May fee "h; USING "##.##"; (wh/n)*100/wh
           520 GOSUB 420: PRINT ps; CHR$(39); CHR$(103); "Mean
                                                                                                    ="; b(n/2)
           530 RETURN
```

#### **EASTER**

#### by Robert Ainsley

On the theory that it is impossible to work out the date of Easter without a computer, we rush to oblige. Maybe it's just that time of the year but we have had a sudden rush of programs to perform this most mysterious of computations. The one we've chosen seems the the most comprehensive. It even tells when Easter Monday is how's that for advanced computer technology.

After lengthy discussions with some of our readers on the introduction of the Gregorian Calendar in England, Scotland and Italy, we face the prospect of another dates listing with fear and trepidation. So let us state that as far as we know this program would not know a Gregorian.

Calendar if it got one for Christmas.

Mr Ainsley in his comments refers cryptically to 'an incredibly obscure formula for Infinity the date of Easter for any year from 1983 to 2500 due to some astronomer whose name I can't remember'. He claims that the program will work out dates from 1800-2000. We know for a fact that it works for 1987 but take no responsibility beyond that.

It's most important to remember to watch for the back-slashes used at various points. This is produced with [ALT] and [1] and is not to be confused with boring old !!"

```
10 INPUT "What year do you require the Baster dates for"; y%
      20 m%=203:d%=12
      30 IF y%<1900 THEN 70
40 m%=204:d%=13
50 IF y%<2100 THEN 70
a
      60 d%=14
      70 a%=v%-19*(v%\19)
      80 q%=y%\4
90 z%=m%-(11*a%)
      100 c%=z%-30*(z%\30)
110 IF c%=28 THEN c%=27
      120 IF c%=29 THEN c%=28
      130 h%=y%+q%+c%-d%
140 e%=h%-7*(h%\7)
      150 easter%=26+c%-e%
      160 PRINT: PRINT "In"; y%; "Good Friday is on";
      170 GOSUB 230
      180 easter%=easter%+2:PRINT SPC(8);"Easter Day is on";
      190 GOSUB 230
      200 easter%=easter%+1:PRINT SPC(8); "Bank Holiday Monday is on";
      210 GOSUB 230
      230 IF easter%<22 THEN PRINT " March"; easter% ELSE PRINT " April"; (easter%-31)
      240 RETURN
```

### **MOVING WRITING**

#### by Ruth Taylor

Have you ever yearned to write something that was really moving? Well here's the easy way to do it: for one thing this listing must surely be short enough for anyone to attempt, and for another it really is fun to see words dancing across the page. They actually leap from the side of the screen and dash across until they reach the centre where they know exactly where to stop. Faratstic! You put your own text starting on line 90 making sure that you still finish with a '++' line. You can even change the position on the page by changing the variable 'row' in line 10.

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### **BASIC SETKEYS**

#### by Terry Dwyer

Using the SETKEYS utility in CP/M may not be the most difficult challenge in using the PCW but it must be said that it's not exactly easy either. So why not use this BASIC program and take all the worry out of defining your unused function keys?

The program asks you which of the f-keys - the four keys right of [RETURN] - you want to define. What this means is that commands you use regularly, such as BASIC, SYSTEM, DIR or ERA M: \*. \* can be achieved at one keystroke. All of these can be used with an automatic [RETURN] (it asks you whether you want a [RETURN] at the end). Without the [RETURN] at the end of the command, you can set the keys up to generate commands used regularly in BASIC, for instance RIGHT\$ ( or MID\$ ( to make life easier when you are programming.

ert boot disk. Information will be kept in a file on this disk define the function keys, press 1-8 (9 when finished) i gpe required character or string? BASIC o gou require a carriage return also? Y/M Y ew fl = BASIC + (RETURM) define the function keys, press 1-8 (8 when finished) g ype required character or string? SYSIEM to you require a carriage return also? Y/M Y leu f2 = SYSIEM + (RETURN) define the function keys, press 1-8 (9 when finished) Jupe required character or string? DIR Do you require a carriage return also? Y/M Y New #3 = DIR + (RETURN) To define the function keys, press 1-8 (9 when finished)

The ordinary settings that apply whenever you turn the machine on make [f5] halt the screen display and [f7] copy all text to screen and printer. Mr Dwyer suggests you might want to leave them alone, but all the others are up for grabs. When you have defined them all type '9' and the file FN.KEYS is created.

If you have a 'PROFILE.SUB' file already the program modifies it to run the new file. If you don't, it will create a brand new PROFILE.SUB. Make sure you have SUBMIT.COM and SETKEYS.COM on the disc to make it work. It will not work until the next time you boot up. of course, but it will load automatically after that,

The only problem could arise if you are already using SETKEYS for another application. If you are using a large SETKEYS file - in NewWord for example - you may find that trying to define too much with this program can cause problems.



WELL, IT DOES SAY THAT IT'S SUPPOSED TO PRINT TWO COLUMNS .....

# IN PRINTPRISENT AND SAME INTERNATION WITH N 1995 IN a file on this clost PRINTPRISENT AND SAME INDICATED THE THE THE SAME INTERNATION OF SAME INTERNATION OF THE THE SAME INTERNATION OF THE SAME INTE

a

WEND CLOSE

## How to type a listing in

The first thing is to load Mallard BASIC. Turn on your PCW, or reset it by pressing [SHIFT][EXTRA][EXIT], and put a copy of the CP/M master disc into drive A:

When the A> prompt appears, type BASIC and press [RETURN]. After a few seconds a message about Mallard BASIC will appear on the screen ending with the prompt 'OK'.

Type in each line of the listing very carefully, starting with the line number and finishing with [RETURN]. Be careful not to mix up capital I with the number 1, capital 0 with number Ø and colons with semi-colons. During a long listing, it's important to save your work every 15 minutes or so, and you should always save any listing before printing it. To do this, find a work disc with space on it, put it in the drive and type SAVE "PROGRAM" [RETURN]. Of course, you can choose any name of up to eight characters instead of 'PROGRAM'.

When you've finished, type LIST [RETURN] and the whole program will appear on the screen. Check it, and if any lines are wrong, correct them with the line editor. For example, if there's a mistake in line 100, type EDIT 100 [RETURN]. Use the cursor and delete keys to correct the line and press [RETURN] when you've finished. You

number and pressing [RETURN] To run the program, simply type RUN [RETURN] and yes, the prog

goes wrong. It's more than likely, no matter how carefully you typed in the listing, that it won't work properly the first time you run it. You may get an error message such as 'Syntax error in 100'. List the

program out and check the screen against the original in the magazine Don't forget that the line number in the error message isn't necessarily where the error is - it's simply the point at which the PCW gets stuck. You may have to look elsewhere for

When you find an error, either retype the complete line of use the line editor (described earlier) to correct it. Run the program again, and hopefully this time it will work. If it doesn have to go through the correction process again. Once the program is running correctly, save it again. To leave BASIC and return to CP/M, type

Each time you want to run the program, you must load BASIC, type LOAD followed by the name of the file you saved it in, and type RUN once it's

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To submit a listing you must supply

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A disc on which it is saved 3. A stamped, addressed, padded bag for return of your disc.

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# FREE LOADING

# Frank Peters shows how to tap

To get hold of all the PD Software covered in this column, you will need a modem. When you log on to a bulletin board, you then 'download' the program you want—the software you need to to do this can also be found in the Public Domain.

Over in the States, Ward Christensen needed a means of passing a file between two computers accurately and error free. From him, 'Kmodem' was born, and all good communications software written since has included this.

There are a couple of programs in the Public Domain currently available to make your life as easy as possible for transferring files by modem. For the PCW there is the grandchild of Christensen's original Xmodem program, '8256UKM7', which is specially written for UK standards. Another is MEX. of which more later.

#### Getting into 8256UKM7

8256UKM7 is definitely a good starting point for beginners. It is easy to use and is far more versatile than the PCW's standard MAIL232. You can transfer files error free, unlike CHITCHAT, and it is not as complicated to use as say, COMM+.

Having run up the program from the CP/M prompt you will be presented with a full list of all the commands available to you. It will also tell you information about the way the serial interface has been set up. The default values are TURBO speed (31,250 baud) with each character set to 8 data bits, no parity and one stop bit.

Before logging onto a bulletin board which is using 7 data bis, even parity and one stop bit, you will have to use the OPT (options) command to set up the required configuration This is very easy to do, just follow the instructions and choose the required options. Type T (RETURN) for terminal mode and you will be presented with a short menu of commands available from terminal mode.

If you want to receive messages into a file at your end then at the main menu enter terminal mode with a filename attached like this....

A>T DUMMY.TXT [RETURN]

This will then display a colon at the start of each line to remind you that you have terminal save mode on. To toggle between saving being on and off press \(^+\) Y. When you exit back to CP/M or re-enter terminal mode with a second new filename, it will close and save the file for you.

There has been a further addition made in the last few years to the Xmoden system, called "Batch mode. This is a beautifully lazy way of exchanging files after telling the host computer which files you want, it automatically transfers them one after the other and puts them on your disc. Some services do not support this yet, but the Fido group of Bulletin boards certainly do. UKM7 defaults to this mode so it is therefore necessary to enter that you want NON-batch mode at the command prompt when about to start, a transfer.

#### **MEXimum** performance

MEX (Modem EXecutive programme) contains all the features given to you in UKM7 but with lots more added to allow you to autodial numbers ad nusseam until they become free (strictly against BT regulations), and the ability to fine tune the program to your exact requirements and save all these changes and ohone

requirements and save all these changes and phone numbers inside the programme itself with the 'CLONE' command.

How about commonly used pieces of text like your name, IDnumbers, or pastword? These can all be saved away as 'keystrings' sent out for you by pressing [EXIT] then the key you saved it under. To make things even easier, you can store in a file the sequence of commands that would log you onto a system, and read these in automatically.

There is nothing to stop you taking it one step further and in fact writing an ASCII file of commands that will set up MEX how you want it, did the number for you until free, logon, download all the messages waiting for you and sign off. Because of MEX is complexity, there is no doubting it will take time to learn ALL its possibilities and commands, because of this a very fast and comprehensive help menu is on hand at all times. Need help with the CALL command feasy, tyge in HELP CALL.

In control
Whenever you are told to
type [ C, or C, in
magazines or manuals, this is
a standard way of describing
[ALT]-C. First hold [ALT]
down, and then at the same
time press the C key (or
whatever letter it is)

# Where to go

How do you know if any software will be of any use to you? The simple answer is to logon to your nearest Public Domain Software Interests Group (PD SIG) bulletin board and ask (if the system operator (SYSOP) can not help you, there is always someone don't require a membership fee, although actually joining the PD SIG is well worth the money with regular newsletters of hints, tips and news of CPM software.

It has to be admitted that there is some software freely given to the Public Domain that will not work on PCW8256, or is just not very robust. The following computer systems are available for free use by anyone. Don't forget you will need to set up your interface to 8 data bits, no parity and one stop bit – often abbreviated to 8N1. They all have 1200/75 baud, most also will work at 300 baud, anost also will work at 300 baud.

Langford ROS 0462 700893 l0pm to 9am only (LocoScript 8256UKM7 document available) PD SIG 0892 61149 24 hours (The main PD SIG centre) Fido Gamlingay 0767 56551 24 hours (A PD SIG Board)



▲ The main menu of 8256UKM7

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were no executed the receiver seemed because the receiver as when the receiver as well shark and velocity signal to carry on or with the next block. He detected an error (because of line noise perhaps) signal to the will send the noise perhaps' signal telling it to try again. This continue multiple the continuity of the perhaps of the



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  The day of the month ea 2 2nd of June ...

  The day of the month ea 2 2nd of June ...

  The day of the month ea 2 2nd of June ...

  The day of the month each ...

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# TIP-OFFS

Psst! Wanna know a secret? Then you've come to the right pages.

Tailor made for all music taping pirates is this month's 30-smackeroo winning tip from Simon Hall in Dorking – a simple but effective LocoScript document to print out all your cassette inlays for you. If that doesn't tempt you, how about telling the time in BASIC? Colour coding your discs? The list is endless.

Your magazine needs you to send in even more bright ideas. If the promise of national fame and glory in 't enough for you, will the promise of 130 twist your arm? That's what we pay for the best tips each month. Write to TipOffs, 8000 Plus, The Old Barn, Somerton, Somerset TAI I TPY.

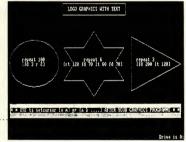
Logo secrets

A few hints about the mysterious world of Logo. Using the [f1] key during a graphics routine will cause it to pause. You can then move the turtle and carry out another procedure if you want. Then type to 10 return to the original procedure. It will continue from the turtle! sew position.

Using the [f5] after a graphics routine will return the screen back to the split screen in use before the routine

If the full graphics screen is in use when you are printing text with graphics you have to use f s at the end of the command:

ts setcursor [n m] pr [. (where n and m are the coordinates of the place on the screen where you want the text).



What type?

Here is a neat way to ring the changes in typefaces using the escape combination ESC! n (with a 6 bit number n). It uses a DEFFN statement at the beginning of your program

DEF FNfont\$(b%,c%,d%, e%,f%)=CHR\$(27)+"!"+ CHR\$(f% OR 4\*c% OR 8\*b% OR 16\*d% OR 32\*e%)

In this b% stands for BOLD

c% stands for CONDENSED d% stands for DOUBLE (strike) e% stands for ENLARGED (double width)

f% stands for FONT

Easy to remember. A zero in the function call turns each parameter off and a one turns each parameter on. The only parameter not obvious is the Font. Here a zero gives Pica (10 pitch) and a one

gives Elite (12 pitch).

From this you can achieve the full variety of combinations.

PRINT FNfont\$(0,1,0,0,0); 17 pitch (Condensed Pica) PRINT FNfont\$(0,0,0,0,1);

| 12 pitch (Normal Elite) | PRINT FNfont\$(0,0,0,0,0); | 10 pitch (Normal Pica)

PRINT FNfont\$(0,1,0,1,0); 17 double pitch (Condensed Enlarged Pica)

Enlarged Pica) groupname.GRP. LocoScript PRINT FNfonts(0,0,0,1,1); looks for a file ending. GRP and 12 double pitch (Enlarged Elite) calls the group after it. What yo PRINT FNfonts(0,0,0,1,0); have to do is to delete this file. a

10 double pitch (Enlarged Pica) There are one or two problems. For instance when using Elite (f%=1), Condensed (c%=1) has no effect. And for some reason using Bolding (b%=1) and Elite

(f%=1) does not produce Bold Elite as expected but Enlarged Pica. There seems to be no way to

There seems to be no way to reproduce 15 pitch?", but why does anyone want to use 15 pitch?' R.D.Post, Southery, Norfolk

#### Underlining in

One annoying drawback with using NewWord is that you cannot reproduce continuous underlining on paper. This can be rectified (as long as your printer can do continuous underlining, as the PCW standard one can) by installing! the program.

Copy the program file NW.COM into the memory drive. Put the NewWord disc in the current disc drive and type NW INSTAL. You, are now given the option of changing the default settings in the program (see the 'Nuts & Bolts' section of the NewWord manual.

With option H, you can change the default setting from word underlining to continuous underlining, which enables this function to work without having to enter the dot command . u l in every document.

Go to 'Patch Menu 3', select the Continuous Underlining option, and type F f at the cursor position – this stands for 'yes'. Now exit from NWINSTAL, and copy the modified NW.COM back from the M drive onto your NewWord work disc.

Julie Capas, Northwood

#### What's in a name?

If you have made up your LocoScript work disc by copying the master disc and deleting all the files you don't want, the groups will still be named 'LETTERS', 'CONT' and so on.

You can change these names with the [f5] key, but since you can't put lower case letters or spaces into group names, you can never make them revert to 'group 0' if you would rather have unnamed groups.

The name for a group is stored by LocoScript in the group as a file of zero length called 'groupname. GRP'. LocoScript looks for a file ending. GRP and calls the group after it. What you have to do is to delete this file, and then the group will be called group 0'. or whatever number it.

Although the .GRP file is not shown on the Disc Manager Screen, it can be erased normally. If the group you are currently in is called 'LETTERS', press he [f6] key, specify the name LETTERS, GRP as the file to delete, and you will have un-named the

Kai Arste, Llantwit Major

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▲ The LocoScript template for inputting cassette inlays, and a sample printout

Auto debugging If you type in BASIC listings printed in magazines, you have undoubtedly discovered the pleasures of poring over the magazine page, painstakingly comparing it to what is on the screen, to work out why your program is doing its impression of a Dodo

If, in BASIC, once your program is typed in you say

AUTO line number then your program is listed one line at a time as you press [RETURN], starting with the line number you specified (or line 10 if you didn't give a number at all). Once you get to a line with a mistake on it, you can use the cursor keys to edit the line, [RETURN] to confirm the edits. and [5TOP] to leave the AUTO mode lan R McDougall, Bradford

Y. Unterman, Cheadle Allan E Fox. London SE23

#### Cad and a Bounder

If you have the game Bounder by Gremlin Graphics, you may have noticed that on the introduction

screen there is a hint of a 'cheat mode' available At the introduction screen, do

not press space to start the game, but instead press all the following keys at the same time: O. W. E. R. Y, A, S, D, F, G, H, Z, X, C, V, B, N. It is easier to place a matchbox or discbox on the middle-left side of the keyboard and push down be careful not to press the space

The game will now start and you will never lose your balls when you really should. This means you can get much further in the game and explore the higher levels. If you thought the beginning graphics were good then look at the laterlevel ones!

#### Making a hash of £s Because computers are largely

American-influenced, the standard £ sign can be tricky to print out. Generally speaking, you can print out either f. or #, but not both

If you print out a BASIC program, all the # signs on the screen will print out as £ on the paper. The way to avoid this is by giving BASIC the command LPRINT CHR\$(27)"R"CHR\$(Ø This sets the printer to the American character set rather than UK. You can change back to the default version by doing a printer reset (with the [PTR] key).

You can get the reverse problem in some programs, where you can print out # signs but not £ signs. To get round this, you must again send special codes to the printer

In SuperCalc 2, when you are printing out you will go through a sequence like /Output, Display, All, then the choices are P for print or 5 for setup. Choose 5, and then

[EXIT] R 3 (press [RETURN]) The last menu is returned, and you can now press P for print. This has set up the UK character set, and you should now see is not #s on the screen

D Hill Romsey S.T. Pepper, Derby

23 1 Page Length: Header Zone Header Position: set in Page Size Footer Zone: 0 menu Footer Position: 24 )

Page Langth

Here' lines

Pitch-

Tabs:

Left Margin:

Right Margin:

something. Set up a

**DIY Cassette inlays** 

Here is a LocoScript document to

print cassette inlay cards, complete

with titles and a full list of contents.

It also takes care of dotted 'Cut

5et up a special group for your tape inlays, called TAPEIN5 or

TEMPLATE.5TD in that group, and

17

39

69

35 ) menu

set in Layout

enter the following information:

On the main editing screen: Line I: 69 minus signs (one full line) 69 minus signs Line 5

Line 6: FPitch I7D F Bold FItalic Centre Line 7: **⊞Centre** 

Line 8 Pitch Bold Italic, 69 minus signs Line 23: 69 minus signs

All the other lines are normal [RETURN]s. When entering the data, use the [f1] menu to show just the 'effectors' on the screen. and use [EOL] instead of [RETURN] to move from one line to the next

Simon Hall, Dorking

#### Coded discs

The trouble with discs is that they all look much the same. But there is a quick means of identification colour code the spines with marker pens. Master discs can be coded yellow, security copies orange, and day copies left uncoloured

You can be much more sophisticated with your colour schemes if the circumstances warrant: day copies of account/ database/ spreadsheet program and data discs can all have several colours, as long as you can find enough colours to go round! G.M. Edwards, Dymock Christopher Whitmey, Fownhope

#### Telling the time

The PCW has a clock built into it which gives the time to the nearest second. This can be set and read from within BA5IC, allowing you to write programs timing things.

The clock is held in three bytes of memory: the hours in 64502. minutes in 64503 and seconds 64504. Using the PEEK and POKE commands you can then read and set the time

The numbers in these memory cells need decoding to give the true hours, minutes and seconds. For example, to find out the number of seconds you are into the minute

#### Y=DEEK (64584)

SECONDS=X-INT(X/16)\*6 The same formula works for the hours and minutes figures too, with 65404 changed to 64502 or 64503 respectively

You can zero the clock by POKEing all three locations with zero. Alternatively you can apply a little maths and invert the above formula to work out what values you need to POKE into the memory to set up the time you

CP/M's DATE command will set up the day and time for you. outside BASIC

8000 PLUS 69

#### **TIPOFFS**

#### LocoScript

Diary/Calculator If you are a LocoScript user, you may envy the CP/M lot their Companions and Write Hand Men. These are utility programs which let you, at the touch of a button, iot down notes, call up a calculator. or browse through an address hook, no matter what program you are running.

LocoScript, not running from CP/M, can't work with these programs, Instead, here are a few suggestions for your very own Stationmaster' (get it? Loco-Script? Stationmaster? Oh, forget

Diary/Memo Pad: Set up your diary as an ordinary file in any group of your start-of-day disc. Laid out in preset sections, in any format you find suitable, this serves as a daily updatable memo list with separate sections for urgent phone calls, meeting times and miscellaneous notes like Food the piranha

Call this diary file TEMPLATE.STD – obviously it can't be in the same group as another TEMPI ATE STD. When LocoScript starts up. it automatically copies all the TEMPLATE STDs it can find into their corresponding groups on the M drive. This means that you can change disc after disc and your diary will always be available in the M drive for you to update and inspect (as long as you can remember its group number).

Address book/Phone list: This comprises two discs, offering a maximum of over 200 files (more discs needed if you are a very popular person), each file holding a pre-entered address on page 1, followed by a telephone number on page 2

If you name each file with the contact person's surname, then LocoScript will list out all the contacts in alphabetical order on the screen. It is the work of moments to insert it into a letter or print out the address on an envelope or label – only make sure the template is correctly set up for the envelope, and that you abandon printing before page 2 (the phone number) is printed. Scratchpad: A particularly neat one, this, LocoScript has an 'Inspect document' command, which with a little cunning can be used as a mini-inter

LocoScript-using readers will know that 'Inspect' is like one of those tags you tie on your suitcase. It consists of a few lines of text that you can set up and edit to provide a brief description of any file, for random inspection and memory jogging from the disc manager screen. If the name of the file and your memory is good enough to tell you what a file contains, then this Identity text is ready and waiting for more interesting purposes...

Imagine you are in the middle of a long editing session and the phone rings. Damn! You can't

reach that biro (or you've given them up as bad for your health). You badly need to jot down that urgent message, what do you do?

Press '17 Modes' - 'Edit Identify Text' - [ENTER], and there's your three lines of available jotter space. When you've finished, press

[ENTER] again. At the end of the day, when you've exited normally form your file, your jotting has been automatically retained for inspection from the disc manager with the [f2] key. You can get a hard copy with [EXTRA]+[PTR]. Steve Gough, London W10





▲ The Identify Text used as a jotter, first being read from the Disc Management screen



#### Drawing the line

A very useful phrase to have in your PHRASES.STD file is ULT Rjust TUL

Calling it phrase L is appropriate. It is particularly valuable if you often type anything which needs written responses: questionnaires, forms, pupil worksheets etc. A small poll has revealed that many people prefer to write answers on continuous lines rather than dotted lines

The effect of the code is two-

fold: used at the start of a new line it draws a neat and continuous line across the full width of the layout. This can be used to divide sections of reports, to make a neat letter heading, or to rule the lines for answers to be written on

But the cleverest part is that if [PASTE] L is used at the end of a line which already includes some text, the line will simply be drawn to the right hand edge of the lavout

Somerton College of Higher Education

17th April 1987

45 Polham Lane Somerton Somerset

Answer all the questions on the sheet twice each Do not write on more than one side of the paper at once.

How do yo	u spell:		
(a) C	at		
(b) D	og	 	

2. At the 1946 Irish sheepdog trials, how many were acquitted?\_

3. Write down all		

▲ A sample guestionnaire ruled with the help of [PASTE] I

#### Sorting it out

Owners of Arnor's Prospell spelling checker program have a handy way of sorting lists of words into alphabetical order.

Prospell has an option in its Dictionary Utilities submenu 'Build Dictionary'. This takes a file of words, compares them to the current dictionary, and writes the unrecognised words out to disc. The words are output in sorted order

You will need to have a new dictionary disc with no words at all in it (so that all the words in your file are flagged as unrecognised). To do this, choose the 'Initialise Dictionary' option on the Dictionary Utilities submenu, and put in a spare side of a disc into the A drive

Now when you choose 'Build Dictionary', you will be asked whether you want to build to a dictionary or a file - choose 'File' With your new blank dictionary in the A drive, and your file of words to be sorted in B or M. answer the prompts for input and output file names.

The input file can be a straight LocoScript file, but the output will always be an ASCII file. To read an ASCII file back into LocoScript, use the [f7] Insert Text command while editing. You will find that the output file contains all the words in the input file in sorted order. although they will be all in capital letters

David Fisk, Arnor Ltd

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These pages provide a comprehensive guide to the Amstrad PCW software. Published in three monthly parts, this time it's the turn of Word-processing software, Games and Accounts/ Payroll programs to face the ultimate test. We've set out to cover every important piece of software we could lay our hands on, and to give you enough information to decide whether they are suitable for you.

Any software not listed here either has not been reviewed by us yet, or has been left out to make space for better programs. Games entries have ratings out of five, the others have a brief summary and a list of plus and minus points. Particularly noteworthy programs have an elliptical flash on them. Have fun window shopping!

# **ACCOUNTS · PAYROLL**

Money Manager £24.95 • Connect Systems Ltd • 01-743 9792

A personal accounts package, which might at a pinch serve a fledgeling small business. It acts as a daily diary, over 12 months, recording all incomings and outgoings between up to 9 accounts. Transactions can be given codes to group like ones together, and simple reports can be printed

- DI LIGES . MINITEES
- Simple menu and screen entry of data Standing orders can be defined for each month
- Detailed and summary statements can be printed out
- VAT reports can be separated out
- Can present results as bar charts
- The 24-page manual does not give enough examples
- The statement format is not very flexible
- Transfers between accounts are not cross-referenced

#### esoft Accounts £99.00 • Sagesoft • 091-284 7077

- An integrated accounts package consisting of purchase, sales and nominal ledgers. For another £50 you can buy Accounts Plus which also has invoicing and stock control. The package is aimed at small companies with the emphasis on ease of setting up. But there are a number of limitations - in particular the package cannot cope too easily with rapidly increasing numbers of customers and suppliers. PLUSES . MINUSES
- Clean, tidy and logical screen layouts and menus
- 丽 Easy to set up and use with excellent documentation
- Good audit trails and VAT reports
- Can produce formatted trial balances
- Restrictive account numbering system
- Small batch sizes
- Only single Nominal ledger and VAT analysis per Item Does not cater for settlement discounts
- Won't print remittance advice slips

#### Compact Accounts £199.99 • Compact Software Ltd • 0306 887373

ery large integrated package supplied on several discs and consisting of

sales, purchase and nominal ledger together with invoicing. The package is available 72 8000 PLUS

on much larger micros, and since the format in which data is produced is the same as on PCWs, the system is particularly suitable for users planning to upgrade their hardware at a later date. The programs' anti-piracy system means you have to use the original discs in the A drive. This means the system is not very suitable for use on an 8256

- PLUSES MINUSES
- Audit trails are an auditor's dream Includes a facility to allow data to be used in WordStar, Multiplan or SuperCalc 2.
- Superb prepayment facility.
- Can run a number of companies separately
- Easily transported to bigger computers.
- Lots of disc swapping necessary.

  Can be slow to use it runs in Mallard Basic.
- A couple of mildly annoying quirks in cash allocation routine and account code system

#### Camsoft PSIL

#### £149.95 • Cambrian Software • 0766 831878



sts of five integrated packages. Sales, purchase and nominal ledgers, invoice and stock control. In terms of sophistication it falls somewhere between the Sagesof package and the larger systems from MAP and Compact. But it's easier to run than the larger packages since all the software can be squeezed into the M drive. Good package for a small company. PLUSES - MINUSES

- Comes installed for PCWs and can be run efficiently by 8256 or 8512
- No need for pre-printed stationery
- Excellent sort and search facilities
- Invoices shown on screen as you create them.
- Constant need to input full five-digit account codes. No final accounts reports available on nominal ledger
- No facility to run the ledgers in different accounting periods.
- M.A.P. Accounts

#### £149.00 • MAP Computer Systems • 061-624 5662/3



This is a very powerful package moved onto the PCW at a fraction of its cost on large micros. The size makes it a little cumbersome to use, but apart from that there are very few significant problems. The integrated suite includes the same five modules as Camsoft, but they are supplied on four sides of disc, making it effectively impossible for the software to be run as an integrated system on an unexpanded 8256

#### PLUSES - MINUSES

- A very comprehensive and professional package
- Very good audit trails It's possible to run the sales and purchase ledgers over a different time period

- Able to print full management accounts
- The size of the programs means lots of disc swapping.

#### All normal responses need to be in upper case

#### Small Business Accounts Made Simple SMALL TRADERS BEST BUY £99.95 • Micro Simplex • 0625 615375 An accounts and VAT system specially designed for small businesses. Uses a special system of trading weeks and quarters, and links in bank transactions etc.

- DITISES . MINITISES
- Hees M drive to speed operation
- Comprehensive, easy-to-follow manual Handles special retailer VAT schemes
- - Easy to use menus Very good audit trails
- Facility to provide simple profit and loss figures
- Use of accounting weeks makes it rather rigid Only suitable for simple cash trades

#### Sandpiper Accounts

#### £149.95 • Sandpiper Software • 0978 358832

This package is described as a 'simplified' integrated system and is aimed at inexperienced users. But although it offers a large number of features at a competitive price, it suffers from some serious drawbacks. In particular the limited audit and enquiry facilities will make it unsultable for many businesses. PLUSES • MINUSES

- Comes ready installed to run from the M drive.
- Price includes three months' telephone support
- Very poor audit trails and lack of detail on nominal ledger.
- Analysis of sales and purchases very slow
- It would be easy to wipe off transactions by accident mid month.
- The documentation is confusing.

#### Cavalier Install

#### £99.95 • Load & Run • 0322 72116 73128

A comprehensive integrated package. Comprises 'Intact' accounts and 'Instock' stock control, available separately for £59.95 each. Well designed, easy to run and verful enough for most businesses. PLUSES · MINUSES

- Other packages (eg. Teleadd address book) can be added too
- Comprehensive range of features when used as a package.
   Sophisticated features in Instock section covering pricing and order suggestion.

- ☐ Manual gives you a confusing number of options

#### Personal Tax Planner



£24.95 • Digita • 03954 5059 A program which takes you through all the stages of filling out a tax return, and will tell

- you how big a rebate you are due (if any!)
- PLUSES . MINUSES
- Simple to use
- Needs almost no knowledge of tax laws Keeps your income tax details all in one place, and prints out a neat summary
- You have to pay £10 if you want another year's allowances to be used
- ☐ Limited application -- you might only use it once a year

#### Simple Accounts

#### £34.95 • Cornix Software Ltd • 0462 682989

As simple to set up and run as the name implies although it is limited in its aims and can be slow. Does the basics for a small firm in sales and purchase ledgers quite efficiently.

- PLUSES . MINUSES
- Needs little accounting experience to work effectively.
- Runs in Basic and can be slow.
- Limited number of entries in each period so choose the accounting period
- carefully.

  ☐ Limited in its aims

# MAP Payroll £49.00 - MAP Computer Systems - 061-624 5662

GOODVALUE

#### PLUSES - MINUSES

- Can amend and re-run at any stage (even after printing payslips)
- Cash analysis is broken down into departments
- System prevents re-use or amendment of leavers
- Facility to hold up to 40 standard hourly and weekly wage rates
- No SSP calculation facility (although there is provision to record amounts paid)
- Programs necessitate a lot of disc swapping
- Automatic amendment of tax code changes does not print a record of alterations

#### Camsoft Payroll £49.95 • Cambrian Software • 0766 831878

SIMPLE AND FI FXIRLE

- Full payslip displayed on screen and any item can be amended immediately - when accepted the payslip is printed at once with an optional file copy
- Facility for freehand narrative on any payslip
- Uses M drive for programs to speed operation Built in on-screen help facility
- Selective search and sort routine for output to screen, printer or disc
- Uses alphanumeric employee codes
- Screen menus somewhat untidy and sometimes difficult to follow
- No listing of cheques

# Compact Payroll £99.95 • Compact Software ltd • 0306 887373

- PLUSES MINUSES
- Supplied with test data
- Good facility to change employees tax codes following budget
- Can run payroll for several companies Same program available for PC compatibles, and the data is transportable
- Must be run from the master discs Pregrams spread over two side of a disc and run in BASIC
- Needs use of data input form and calculation of a check digit for each employee processed
- Once payslips are printed there is no chance of changing anything
- Most expensive payroll program

#### Sagesoft Popular Payroll £69.95 · Sagesoft · 091-284 7077

- PLUSES · MINUSES
- Any or all employees payroll can be rerun at any stage up to final update
- Full pay history available for all employees and leavers Calculates average pay for holidays etc
- Very easy to install
- Limited number of additions/deductions
- Doesn't print a list of cheques No analysis of additions/deductions

#### Colleen Payroll £29.95 · Colleen Ltd · 0443 434846

#### PLUSES · MINUSES

- Comprehensive employee details
- Calculates wages rates from annual total Shows payslip on screen while creating
- Complete with good report generator
- Runs in BASIC and menu selections involve a lot of responses
- Comes with Tax and NI details blank with advice to look up details!
- Generally very complicated to implement Attempts to amend individual emplyees' pay after an automatic run (as advised in the manual) caused a program grash

#### Sandpiper Payroll

#### £79.95 • Sandpiper Software • 0978 355333

- Uses M drive to speed operation
   Comprehensive SSP records.
- El Cash analysis broken down into departments.
- ⊞ Gives on screen review of payslips and allows amendments after payslips have been printed
- Can only process one department at a time.
   Complicated installation and software protection procedures.
- ☐ Slow cursor movement and unhelpful positioning while making entries.
- Documentation not very thorough.

# **WORD PROCESSING**

The PCW already comes bundled with a free word processor, LocoScript, so you might not think of buying another one as a priority. In fact, whatever you may have read in magazines, LocoScript is a pretty good word processor and you won't find many editing and layout functions that it doesn't have. Its principal disadvantage used to be its slowness, but with this month's release of LocoScript 2 all that has changed.

# The Best! from HiSoft

# Devpac80 Ver. 2

Doynac has always been a popular Z80 development system used by Software Houses all over the world since we first introduced if for CP/M over 6 years ago. Many regard it as a standard to work from. Now we have extended the standard to produce the most powerful Z80 development package yet seen and still at the same price as before, half the price of certain other systems!

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- assembler produces standard .SYM symbol table files for use with the symbolic debugger or with debuggers from MicroSoft and Digital Research.
- the debugger is symbolic i.e. you can see the labels you used when assembling in the code that you are debugging.
- debugger uses full conditional breakpoints and watchpoints so that you can even profile your program to highlight slow areas.

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  - super-fast and compact code.
  - Kernighan/Ritchie without floating-point or linkage.
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#### Aztec C' Prime £79.95

- industry-standard compiler with upgrade path to developer and commercial versions.
  - assembler, linker and object modules all supplied. produces efficient, fast code.
- full Kernighan/Ritchie with floating-point.
- versions for CPC6128 / PCW / PC1512 computers.

We have many other high quality language/utility products for the Amstrad computers including HiSoft Pascal80, Nevada COBOL & FORTRAN [239.95 each], FTL Modula-2 [254.95], ZBASIC [249.95], The Knife [212.95], HiSoft FORTH [219.95], Write Hand Man (229.95) and more. Please write or phone for our latest catalogue.

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WHAT DO YOU NEED? . A MICRO - currently DIALUP is available for the Amstrad PC1512 and the PCW, IBM PC/AT/XT or compatible, BBC Model B/B+ /Master/Compact, RM Nimbus/480Z/380Z • A MODEM - most Haves compatible or manual dial modems • A TELEPHONE LINE - your existing line will possibly do very nicely, and of course • DIALUP Communications Softwarel



COMMUNICATIONS

DIALUP PERSONAL costs just £89.95 (inc. VAT) + £2.95 p&p (Total £92.90). That includes on extremely comprehensive user manual and cable you need to connect your micro to the modern. DIALUP is also available in special pack with the WS4000 Modern at a special price of £259.95 (Inc. VAT) + £5.50 p&p

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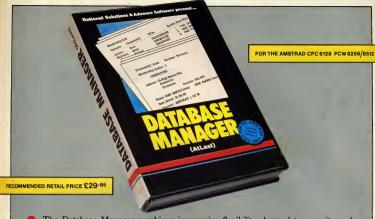
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- The Database Manager combines impressive flexibility; huge data capacity and operational simplicity with an ability to perform tasks other databases are incapable of handling.
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  to properties.
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The Database Manager, don't settle for less!

100 PAGE MANUAL WRITTEN BY ANDREW CLARKE AUTHOR OF CPM + ON THE AMSTRAD INCLUDED



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There are advantages to be had in changing. LocoScript cannot run from CP/M, and this may cause you trouble. Also, you often get a spelling checker thrown in free - look for one which allows its dictionary to be modified so you can include non-American spellings.

Many other word processors have a built in "mail merger" program. This is a way of doing bulk mailshots; you store your address list in a data file, and write a letter with labelled gaps where you want the names and addresses to go. Then, when you print, the letter comes out once for each address, with the the information in its correct place

One thing's for sure, whatever word processor you buy it will be totally different to operate from LocoScript. The PCW keyboard is custom built to run LocoScript, so if you change you will have to get used to some arcane choices of keys to do even simple operations. Also, you won't be able (very easily) to use all the printer styles that you can from LocoScript, although there will be enough to get by with. ■ Well-designed database is ideal for mailmerging.

Database 'attributes' provide an advanced selection capability ☐ Manual is lacking in examples

#### Pocket WordStar



£49.95 • MicroPro/Davis Rubin Associates • 0386 841181 To many business users, word processing means using WordStar. Almost even feature you could need in a text processor is here and despite the title this "Pocket version has all the features of the original. It has also been customised to use the PCW's full screen width and some of the keypad keys. However the program can be difficult to learn and some of the margin and formatting commands are cumbersome. Efficient and proven, but it is now showing its age and there are alternatives unless you are committed to WordStar aiready. For £20 extra, you can get the De Luxe version with spelling checker.

#### PLUSES - MINUSES

- Probably the world's most widely used word-processor
- Documentation is complex but well structured
- Includes a mail merge utility ⊞
- The keystroke commands are fully described on on-screen menus 丽 You can save your own favourite customised version
- Doesn't make full use of the PCW keyboard and printer Page and margin formatting commands are awkward to use

#### LocoSpell £39.95 • Locomotive/Amsoft • See special offers

LOCOSCRIPTERS ng checker for Loco Script users. It is run as a simple menu choice while you are editing a document normally, and you can check either an entire document or only a paragraph. When it finds an error, it suggests a correction for you. Runs reasonably fast, given LocoScript's inherent sloth in the first place. PLUSES - MINUSES

- Runs totally from within Loco Script
- ⊞ Can do small sections of a file
- Suggests alternatives for misspelled words
- Reformats the text as it makes corrections Provides the much-missed LocoScript word counter
- Can't remove spellings you don't like (eg. -ize) from the dictionary
- The manual gets bogged down in confusing details sometimes Slow at scrolling the dictionary window looking for correct spellings

#### Prospell £29.95 • Amor • 01-684 8009



A MUST FOR

This is a stand-alone spelling checker suitable for use with almost all word processo that run on the PCW machines. It can read LocoScript, WordStar and plain ASCII files. It flags up each wrong word as it finds it, and allows you to make corrections directly, view the context, change the dictionary etc. Speed is not bad. PLUSES - MINUSES

- Can check LocoScript and WordStar documents directly
- Can display the context of a word to remind you what it should be Can edit misspellings directly from Prospell
- Can update the dictionary interactively Ħ
- It has an gram and crossworld solvers too It processes files of more than 15k or so in separate sections
- You can't copy the dictionary to the M drive for speed

#### LocoMail

£39.95 • Locomotive Software/Amsoft • 0277 230222



As a mailmerger for LocoScript documents, it's difficult to see how anything could be much better than this. It runs directly from LocoScript, so you never have to use CP/M, and can process any LocoScript commands. Has many advanced features, and is highly recommended for all LocoScript users. PLUSES · MINUSES

- You don't have to run it from CP/M
- Can automatically rejustify paragraphs after insertion Can insert numeric calculations into letters
- Can read data from non-LocoScript (ie. ASCII) files
- Large manual, with example files on disc
- No way to sort and filter addresses before a print run

GREAT VALUE £29.95 • Proteus Computing • 01-748 2302

ally designed to work with LocoScript files. It scores over LocoMail in that it has a simple but effective database system to allow you to choose your target for a mialshot by marking them with 'attributes' and selecting -- eq. only those customers who bought your product X. PLUSES - MINUSES

- Read LocoScript files unconverted
- Prints all LocoScript commands properly
- 76 8000 PLUS

#### NewWord £69.00 • NewStar Software Ltd • 0277 220573



NewWord sets out to exploit the WordStar market by doing just the same job but better. It uses much the same key commands as WordStar, and will even edit WordStar document files. It comes with a spelling checker. On-screen help is much better than WordStar, but the commands, being restricted by compatibility, are still as PLUSES · MINUSES

- Can do everything WordStar can, and even edit WordStar files
- Makes good use of the PCW screen -- actually shows underlining and hold text Clearer help messages than WordStar and good tutorial manual
- Has full reformatting of text within its mail merge
- Good spelling checker as part of the price Can un-erase words and lines -- useful for moving them around
- Weak on use of the keypad and printer support Many of WordStar's disadvantages too, like formatting troubles and obscure commands.

#### Tasword 8000

£24.95 • Tasman Software • 0532 438301

An established word processor that is well tried and tested on Amstrad's CPC machines. Tasword's strength is its printer handling - it provides a host of customisation options for different printers, and a variety of print fonts too. But if you enjoy moving blocks of text around to see how they look in different places, Tasword will let you down for speed.

- PLUSES MINUSES Clear, well structured on-screen help menus
- Ĭ A variety of printer controls and fonts available Includes a reasonable mail merge program
- Moving around big files is fast You can easily create and save a customised version of the program
- Doesn't treat [RETURN] as a character it can lose paragraph endings.
- Reformatting text blocks is quirky
- Documentation is a bit brief The search and replace function is limited and very slow

#### **AnsibleIndeX**

£49.50 - Ansible Information - 0672 62576



Takes a LocoScript file and compiles an alphabetical index with page numbers from all the words marked. You mark the words to be indexed by using LocoScript's (ERV) code. The price includes the AnsibleChecK word counter /proof reade. program too. which is also available separately at £19.50. PLUSES . MINUSES

- LocoScript documents don't have to be converted to ASCII
- Can 'invert' phrases, eg. 'Smith, Fred' rather than 'Fred Smith'
  Can produce a single index combining several different LocoScript files
- ⊞ Readable and comprehensive manual The output index is not a LocoScript document until you convert it
- You can only index words which appear literally, not general topics ☐ The price will deter casual users

#### LernLoco

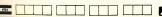
#### £16.95 • Minerva Systems • 0392 37756

A set of LocoScript files on a disc which are designed to be a step-by-step guide to using LocoScript. As you go through the lessons in turn, you print them out to form unurown manual

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PLUSES - MINUSES

Covers most LocoScript's features in well organised lessons

Contains many useful tips and techniques

Style of writing is patronising

It is annoying to have to print out the documents as you go

#### Teach Yourself LocoScript £14.95 · LINC · 0273 776576

r disc of teach-yourself lessons for LocoScript. Better written and organised than LemLoco. The advantage over a book is that you can try things out as soon as you read about them, and see the effect on the text you are reading PLUSES - MINUSES

Well organised lessons for you to browse through as you like

Well-pitched style of writing does not talk down to you

#### Protext

£79.95 · Arnor · 01-684 8009

FAST AND POWEREIN

A powerful challenger for WordStar/NewWord as the best CP/M wordprocessor Very fast at moving around large files, and packed with features. Works with key combinations rather than menus, but doesn't stick to WordStar conventions PLUSES . MINUSES

Complete with spelling checker and mail merger

■ Lets you work with two documents at once

You can do all of CP/M's functions without ever leaving the word processor

Very fast at moving around, doing exchanges and so on Forces you to learn another new set of control keys to use it

☐ Not as slick as LocoScript in its printer controls

#### Grammatik

£49.95 • Optronics • 01-892 8455

A program which attempts to check you writing style (not spelling). It looks for cliches, tautologies, sexisms and so on. Potentially very useful, but to be taken with a ninch of salt.

PLUSES . MINUSES

Shows up grammatical problems you never knew you had

Marks up text for re-editing

Lets you build up your own jargon dictionaries

Needs to be used intelligently Can't spot contextual errors

A little pricy for what it does

# GAMES

No one could have predicted the remarkable way in which games software has taken off on the PCWs. On the face of it, the machine is not ideally built for games, but software houses have proved that impressive results can be obtained on it, and not just with text-based games - your 8000 is capable of amazing graphics! The entertainment software available divides into two main categories:

ADVENTURES are probably the most common on the PCW. These are defined (by us anyway) as games controlled by typed kevboard commands. The program describes a scenario and you, the player have to respond by typing things like: GET SWORD or POLISH ORB WITH THE VELVET CLOTH. These programs vary greatly in their ability to recognise and respond to your instructions, and at their best seem unbeleivably intelligent. Some of them include pictures of the various game locations, but these tend to play little part in actual game-play. We rate these by Atmosphere, Interaction, Challenge and Value.

In ARCADE GAMES, an animated character is moved onscreen by direct keyboard (or joystick) control. You press a key for 'Left' and the character goes left or shoots something. We rate these by Graphics, Addictiveness, Lasting Appeal and Value.

#### Blackstar

£14.95 • CRL • 01-533 2918

A traditional text adventure with large playing area. Your aim is to explore the mysterious Castle Blackstar and its caverns in search of a power orb.

ATMOSPHERE INTERACTION VALUE VERDICT

The Archers £13.00 · Mosaic/WHS Distributors · 0533 551196

By answering a series of multiple choice questions, you decide the fate of your favourite Archers characters. If the ratings drop, you get the boot.

GRAPHICS ADDICTIVENESS LASTING APPEAL VALUE VERDICT

Nemesis

£15.95 - Advantage Software - 0844 52075

A package of four Arnold Blackwood adventure games. The attempts at humour are embarrassing, and the games are thin though well-designed.

ATMOSPHERE INTERACTION CHALLENGE VALUE VERDICT

---

IRREVERENTI

The Very Big Cave Adventure £14.95 • CRL • 01-533 2918

irreverent adventure spool with plenty of comy jokes. like the credulous bull who quards a quily -- the Gully Bull A nice break from serious adventuring.

ATMOSPHERE INTERACTION CHALLENGE VALUE VEDDICT

Strike Force Harrier £19.95 • Mirrorsoft • 01-377 4645

A combat simulation of a Hawker Harrier designed in conjunction with British Aerospace. Highly detailed, and you'll need to put a few hours in with the manual. GRAPHICS ADDICTIVENESS LASTING APPEAL BERNE VALUE VEDDICT BERNET

The Pawn £24.95 • Rainbird • 01-240 8838

A superb adventure name, with some nice graphics screens. Full of intelligent but zany characters, like wizards and monks. Copes with complex commands

SOPHISTICATED

ATMOSPHERE INTERACTION ----CHALLENGE ----VALUE VERDICT

£17.95 • PSS • 0203 667556

Annals of Rome

A wargaming strategy program, set in the Roman Empire. You guide the Empire through 14 centuries of barbarians. Very detailed, but a bit slow and ranged.

ATMOSPHERE INTERACTION CHALLENGE VALUE VERDICT

INTERACTION

CHALLENGE

Leather Goddesses of Phobos £24.95 • Activision • 01-431 1101/2992

Lascivious, licentious and lewd -- definitely not for feminists! An excellent adventure game, spoofing up sci-fi and Soho at the same time. With 3D scratch'n'sniff card!

OUTRAGEOUSI ATMOSPHERE

\_\_\_\_ VALUE VERDICT

Graham Gooch's Test Cricket £19.95 • Audiogenic • 0734 303663

A cricket match simulation with good animated graphics. You can select your own teams, control the speed of bowling and striking. For cricket fans

GRAPHICS ADDICTIVENESS BEEND LASTING APPEAL

VALUE VERDICT

Mountain Leader CPC Minehead • 0643 4851

You are in charge of a mountain expedition. An adventure game which needs a strategic mind, but a bit duli unless you are a mountaineer.

GRAPHICS 00000 ADDICTIVENESS ## VALUE VERDICT

Bounder £13.95 • Gremlin Graphics • 0742 753423

A graphics bouncing-ball game. have to direct the ball over gaps and around obstacles. An impressive range of locations, screen and features.

DIFFERENT AND FUN

GRAPHICS ADDICTIVENESS LASTING APPEAL VALUE VERDICT

#### Micro Trivia

interection

£19.99 • Harold Gale Associates • 0902 772771 A sort of Mensa approved Trivial Pursuit Minimal graphic content, erratic scoring, and even the questions aren't very

GRAPHICS ADDICTIVENESS BEDDD LASTING APPEAL VALUE VERDICT ■□□□□□

#### Brian Clough's Football Fortunes £17.95 • CDS • 0302 21134

A computer game with a diff comes with a playing board and dice. You lead your favourite team to league success. Thoughtful and different

GRAPHICS ---ADDICTIVENESS BERRIO LASTING APPEAL BEREIO VALUE VERDICT MEMBER

#### The Growing Pains of Adrian Mole £14.95 • Virgin Games • 01-727 8070

Your chance to quide Sue Townsend's famous adolescent through life's tribulations. You answer multiple choice questions, to decide what happens next

.... ADDICTIVENESS MEDICID LASTING APPEAL VALUE VERDICT

#### Tomahawk £19.95 • Digital Integration • 0276 684959

An Apache helicopter flight simulator Impressive cockpit view graphics as you engage in combat missions, and can be used with a joystick too.

DYNAMICE CHALLENGING

ADDICTIVENESS LASTING APPEAL VALUE VEDDICT BERRIO

#### Classic Invaders £12.95 • Digita • 03954 5059

A simple version of the classic arcade game. Oozes nostalgia, but the slowish graphics and lack of sound don't really add up to any great atmosphere

GRAPHICS ADDICTIVENESS MIDDO LASTING APPEAL ■□□□□□
VALUE VERDICT ■□□□□□

#### Silicon Dreams £19.95 • Rainbird • 01-240 8838

logy of enjoyable adventure games and a novella thrown in too. You are Kim Kimberley, secret agent, saving spaceship Snowball 9 from its doom.

ATMOSPHERE ----INTERACTION CHALLENGE VALUE VERDICT

#### Tau Ceti

£19.95 • CRL • 01-533 2918 A superb game combining graphics, adventure, brainnower and shoot-'em-un You play a space fighter pilot sent to sabotage Tau Ceti III's main reactor

ACTION AND **ADVENTURE** ADDICTIVENESS ....

#### **Trivial Pursuit**

£19.95 • Domark • 01-947 5624 A computer version of the vuopie board game, full of new questions, complete with good graphics and even tunes! Even so, you might prefer the board version

GRAPHICS ADDICTIVENESS LASTING APPEAL VALUE VERDICT

LASTING ADDEAL MEMBER

VALUE VERDICT MEMBER

## Hitch-Hikers' Guide to the Galaxy

£24.99 • Activision • 01-431 1101/2992 nany people's minds, the bes adventure program written. Based on Douglas Adams' series, it is ingenious,

hilarious and mind-boggling.

HII ARIOUSI SUPERBI ATMOSPHERE 20.00 INTERACTION ----CHALLENGE ----VALUE VERDICT

#### Heroes of Karn

£17.95 • Interceptor Micros • 07356 71145/3711 Traditional adventure game -- you must

rescue the four heroes and use their powers. Gives long and detailed descriptions of your progress.

ATMOSPHERE INTERACTION VALUE VERDICT

#### Classic Collection

£14.95 • Tynesoft • 091-414 4611 A disc of three 'classic' games -- versions of Space Invaders, Pacman and Frogger OK for nostalgia, but the graphics and responses are slow and plodding.

GRAPHICS ADDICTIVENESS BOODO LASTING ADDEAL MUUUUU VALUE VERDICT ■■□□□□

Scrabble £19.95 • Virgin Leisure • 01-727 8070

An excellent implementation of the famous game. 1 to 4 people can play the

PLAYS A MEAN GAME! ADDICTIVENESS MINIO LASTING APPEAL

#### computer, which itself knows a fair few

obscure words. Good graphical display.

VALUE VERDICT MESSED

#### Fairlight £14.95 • The Edge • 01-831 1801

A fine 3-D graphic adventure with similar screen display to Batman. You must explore a castle prison, battle with numerous enemies and solve puzzles

GRAPHICS ADDICTIVENESS LASTING APPEAL VALUE VERDICT

#### Colossus Chess 4.0 £15.95 • CDS Software • 0302 21134

A very strong chess game which manages to use the time which you spend thinking to plan its strategy. Bags of features. including blindfold games.

GRAPHICS ADDICTIVENESS MINIOR LASTING APPEAL VALUE VERDICT

#### Cyrus II Chess £15.95 • Amsoft • 0277 230222

A chess game with a stunningly detailed 3-D display. The play is quite strong, and it has several handy features like allowing you to take back a move

GREAT GRAPHICSI ADDICTIVENESS ....

#### 3D Clock Chess

£15.95 • CP Software • 099382 3463

The '3D' refers to a three dimensional display of a chess clock on the screen. Pretty, but a bit of a gimmick. You can set time limits for moves.

LASTING APPEAL VALUE VERDICT

GRAPHICS ADDICTIVENESS ME BOD LASTING APPEAL VALUE VERDICT

Bridge Player III £19.95 • CP Software • 099382 3463 A few of the bids it makes seem a litt strange, but as bridge programs on computers go this is pretty good. It claims GRAPHICS ADDICTIVENESS MINICOL LASTING APPEAL MINIMO

# not to cheat, even though it deals:

£14.95 • Ocean Software • 061-832 6633 Good 3-D animated graphics as you guide Batman around Gotham City, looking for the hidden parts of the Batcraft. Good range of hazards, and even a tune

GREATFUN CRAPHICS ----ADDICTIVENESS THE LASTING APPEAL VALUE VERDICT

# **NEXT MONTH**

The guide continues next month with the categories of DATABASES, COMMUNICATIONS and GRAPHICS. The month after that will cover SPREADSHEETS, UTILITIES and EDUCATIONAL software, and the month after that it's back to this month's topics.

Our intention is to keep publishing the three parts of the guide in rotation, updating it each month to include all new products. If you would like to see other sections of the guide, back issues of 8000 Plus are available at £1.50 each

Meanwhile, if you are aware of any significant omissions or errors in the File as published, please let us know. We intend to maintain it as THE authoritative guide to PCW software.

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- tc this program.

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# A.M.S. DESKTOP (with Mouse)

Only £69.95 - save £10!!

This package offers your PCW a unique double-upgrade hardware and software.

The hardware is a MOUSE. an add-on that's becoming standard issue on more and more computers because of the enormous gain in ease of operation it can give. It plugs into the machine's expansion port and you then control an arrow on screen by simply rolling the mouse over a small area of your desk

area of your desk.

But what makes this package really special is the DESKTOP software. It transforms the traditional CP/M working environment. Instead of having to remember numerous obscure commands you can simply select from a range of pull-down menus. Move the arrow to the selection you want and press the button on the mouse. Point and Click! Handling files on disc becomes far easier - copy

erasing and and moving files can be done quickly and almost intuitively. Then there's a built in telephone/address book, calculator, and clock and even sliding-number puzzle to while away the odd spare

If you regularly use CP/M software, you're likely to find this package slick, impressive and fun to use



# SPECIAL OFFERS SPECIAL OFFERS

# INFOCOM GAMES

Massive savings on the most sophisticated entertainment software you can buy!

By popular request, here's another chance to buy our favourites from the remarkable range of Infocom adventures at remarkable 8000 Plus prices.

For many people, these programs represent the pinnacle of computer entertainment. What they offer you is NOT graphics or chase-a-blob arcade action. Instead you will find yourself placed in a fictitious world, described in superbly atmospheric detail, and face a sequence of brain-twisting challenges liable to keep you at the keyboard for months.

You communicate with the computer by typing in simple English sentences. If the program doesn't understand, it'll tell you, but the Infocom titles are renowned for their sophistication in handling language. and you'll soon almost believe you're communicating with an intelligent being. In fact, Infocom themselves describe these programs as 'interactive fiction' - it's like finding yourself inside a novel-and having the chance of determining your own destiny.

Until recently these programs were not available in the UK for under £30. And for good reason. For one thing, the programs are massive, containing literally tens of thousands of words of description. For another, they're superbly packaged with all kinds of amusing little extras to accompany the comprehensive and witty documentation.

So to be able to pick them up through us for under £20 a piece is simply remarkable. Pull the curtains, shut out the winter and let your PCW transport you into a different world...





ZORK II A great follow up. ZORK III The hardest of the series **ENCHANTER** Introductory level classic adventure.



HITCH-HIKER'S GUIDE TO THE GALAXY Only £19.95 - save £5!

Arguably the world's wittiest, wackiest adventure game. You take on the famous role of Arthur Dent who only stays alive by discovering ingenious solutions to problems such as that posed by the terrifying Bugblatter Beast, a creature so stupid it thinks that if you can't see it, it can't see you. Can you work out what to do with a pile of junk mail? Can you

learn to understand Vogon poetry? Can you show an obstinate door a sign of intelligence? A game to delight and challenge you for

#### BALLYHOO

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This one's set in a seedy circus in which you have to discover who has kidhapped the owner's daughter. It's packed from start to finish with puzzles of mind-boggling challenge. How do you get a helium balloon that's only reachable across a tight-rope? How do you soothe a gorilla with music when your radio seems incapable of clear reception? How do you trick a clown into letting you past his wagon

There are clues cleverly hidden in the accompanying documentation, but even with their help you'll be in for some long

#### WISHBRINGER

Only £19.95 - save £5!

A stunningly atmospheric game in the Infocom fantasy tradition. The action starts with you, the village postman of Festeron, discovering that a cat belonging to the keeper of the Magicke Shoppe has strangely disappeared. Your only help in solving what rapidly becomes a deep mystery is Wishbringer, a small stone bestowing seven special powers.

This program is especially suitable for people embarking on their first adventure. (It's also, however, been raved over by experts!)

We don't have space to tell you about the rest in detail, except to say they're all SUPERB!

ZORK I

The one that started it all.

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# TIPOFFS

# The collection: issues 1-6

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On LocoScript Major articles on Headers and Footers, Tabs and Rulers, Producing Tables. and Laying out Business Letters. Plus scores of tipoffs: Overprinting, Foreign characters, Creating a letterhead, Better Underlining, Typing ahead, Speeding up Long Documents, Using Phrases, Mathematical symbols, Two-column printing, and numerous others.

#### On CP/M

Major articles on Disc-Handling (including how to make an auto-start disc). Customising individual keys. Controlling the Printer, RPED, SETSIO and DEVICE. Plus tipoffs on using PIP, function ke screen printouts, SETKEYS. avoiding problems with DISCKIT, and many more

#### Other TipOffs

Feeding Continuous paper, Label printing, Using AS paper, Ribbon re-inking. Screen contrast, the free reen contrast, the free game of Life on your master liscs, Boot discs for Cracker and NewWord, and a host of slick little tips for Basic programmers. To mention but a few.

At last the publication you've been clamouring for is here. We've put under a single cover the complete range of TipOffs published in the first six 8000 Plus issues. And there's more: the series of (so we're told) outstanding

To tie the whole package together is, published for the first time, a comprehensive index. So now at last you can somewhere but can't remember where

So much material was covered in the first six issues of 8000 Plus this compilation is certain to become a

else, it offers a chance to catch up on the bumper tips sections in sold-out issues 1 and 2. The 8000 Plus Tipoffs Collection is printed on high-quality paper with a colour cover and we think it deserves a permanent place next to

SPECIALO SPECIAL OFFERS SPECIAL OFFERS



# Why You Should Subscribe to 8000 Plus

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THINGI

# HEAD OVER HEELS

For a start the number of rooms to explore has been

You start off controlling two separate characters Head



# **8000 PLUS DUST COVERS**

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The keyboard cover bears the 8000 Plus logo in red It adds up to a good argument

for a cover up.

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# THING!?

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a Thingi bought through 8000 Plus.

This remarkable computer accessory – an idea so simple it's ingenious — could dramatically ease your wordprocessing hours. All it is is a cleverly shaped piece of processing nours. All it is is a cieverry snaped piece of plastic that attaches via Velcro to the top of your micro. plastic that attaches via veicro to the top of your micro. But with a Thingi on your PCW you can have documents, letters, or program listings clipped right next to the

Any task involving copying off paper is thereby made much easier and faster. In fact the clip supplied is sturdy screen in perfect reading position. enough to support an issue of 8000 Plus open, say, at the

The Thingi can be positioned either to the left or right TipOffs section. of the screen and can easily be removed and replaced if

ecessary. A really sensible, cost-effective add-on for your PCW.



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# POSTSCRIPT

Another bundle of bumf, borne off and bandied about by a boisterous Ed

This month's postbag has been as lively as ever – pienty of contentious views, bouquets, pleas for help, and an occasional criticism, constructive of course. It's what you write that help sut sine-tune each issue to be even better than the last, so get writing! Try us out with your questions, problems, opinions and oddities at \*PostScript, 8000 Plus, The Old Barn, Somerton, Somerset TAII TPY. Sorry, but no personal replies.

If you are plugged in to the world of comms, you can send us your letter by Telecom Gold, using the mailbox 84:TXT152.

# The size of the problem

At the chap responsible for public relations foldmantly). I come up against this marvellous word 'BUG' more often that I would like. With it come the whole spectrum of customers and their various degrees of reasonableness and understanding, let me attempt to put the record straight, so that at least the readers of 8000 Plus may show a little more sympathy to ourselves and to other software

houses in the future. Any non-trivial piece of computer software is never perfect. In fact, if 'finished' is to imply that the program will work predictably under all circumstances, it is indeed never finished either! Many people find this concept quite unacceptable. They have some mystical vision of a computer as mathematical perfection, Somehow, like a pocket calculator, it cannot and should not ever be wrong. Well if only the real world of computing really was like that. To give you some idea of the complexity of Protext (or for that matter any piece of business software) consider the fact that there are more possible ruler lines, creatable on Protext, than there are atoms in the known universe!... and ruler lines are just one of a whole

multitude of features of a document.

Of course this is not to say that software houses do not have an obligation to make the product fit for the purposes for which it is sold, of course they do, but it is smply not possible to rout out all the niggling little 'mini-bugs' in any reasonable number of man years. In fact some little items are still coming to light in Arror titles which must have had more than 10,000 man years of use!

OK, so software houses are made up of people not demi-gods and all software is likely to have faults of varying degrees of nuisance. What is the answer? Well one school of thought would say that software is a work of art. much like a book, a record or a painting (in fact, the law treats it very much in that category in terms of the sale of goods act... providing it broadly speaking 'does the job', you are buying it as is with no recourse to the publisher). At Arnor we have too big a conscience for that, even in relation to the most minor faults

Any version of our software with a proven bug is upgradeable free of charge to the latest version. In addition, if you simply don't like the feel of it for some reason, then we offer a seven day money-back guarantee with no questions asked (did I really refund that woman

because one word was misspelt in version I of the Prospell dictionary?... I'll never make it to the Bahamas at that rate).

Of course most customers understand that new software needs nursing into existence in this way, but there are always those out to prove your advertising scandalous and illegal when countless hours have been spent trying to make the product live up to the advertising in every possible way.

Oh well... enough scribe on Arnor's behalf for now, back to customer service... and would you believe the first letter I look at wants a refund because the 'calculator' isn't fully floating point... he needs a spreadsheet not a word processor, doesn't he?

Here's to a brighter month.

next month. David Fisk Arnor Croydon

#### Moving house

I ordered & Modem, software and serial interface from Modem House a couple of months ago, and the only result was a letter saying they couldn't supply. They advertused in your December issue. Have they gone bust or what? I now have a subscription to Telecom Gold and must find a new equipment supplier. Richard Tween

#### Richard Tweed Park Hill Croydon

As far as we can establish. Modem house are still rading, although this name has been used as the trading name for at least three different companies in the last five months. Two of those are now in liquidation. We ve still to be paid for their December advertisement. Draw your own conclusions.

#### Correct corrections

After buying only the last two months issues I have to say you have me 'hooked', realising also what I missed in the earlier editions. The TIPOFFS (1-6) will, I am sure, go some way to making up for the late start so send it soon!

The programs you publish

(mainly from your readers) have been of great interest, however, I must say you seem to suffer - to a lesser extent than your competitors - from erroneous listings, and having spent a long time feeding them into my PCW8512 it is very frustrating when a bad error in the listing prevents them running.

Even more annoying is when one gets a program going you then publish a 'correction' the next month which causes an otherwise good program to 'crash' - I must draw your attention to the excellent Calendar program (Feb) by Thomas Sykes. The corrections that appeared on page 59 and pag well of the calendar program (Feb) and the system of the calendar program (Feb) and the system of the calendar program (Feb) and the system of the calendar of the system of the sys

#### Nigel Edwards Tadcaster North Yorkshire

Not so Either set of corrections will work, although, of course, the amendment to line 170 published on page 79 of the March issue only replaces the IF statement condition, and not the whole line. You may have had trouble with the backslash character (the one that backslash character (the one that had not the whole line. You may have had trouble with the right). In Mallard BASIC this character is produced by pressing [EXTRA]: twice! The symbol stands for integer divide.



"BIT PRIMITIVE, ISN'T IT? -

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#### Good service awards

In the past I have always been dubious about using Mail Order facilities which are advertised in newspapers and periodicals. Especially when there have been so many cases of 'rip-offs' and nonreceipt of paid for goods.

My faith in human nature has however been restored and I feel I must inform you and your readers of 3 firms that it has been a pleasure to deal with. Crown Dust Covers Ltd

A telephone call one morning to their office in Williton informed me that they would be pleased to dispatch to me that day, one set of luggage for my PCW 8256. When I enquired about method of payment I was politely informed that an invoice would accompany the luggage and if I could be so kind as to send them a cheque within 30 days, that would do nicely! I was speechless! This is marvellous, a trusting, cooperative firm. A pleasure to do business with. Three days later my set of luggage arrived. Silicon City

A few days after that experience I decided I would try this memory upgrade from Silicon City which had been quoted in 8000 Plus. I telephoned Silicon City to make a Credit Card order and spoke to a

very helpful fellow there. I explained that I knew nothing about chips, bits and so on and he very patiently explained what to do. He then said he would despatch that day, my set of chips and the instruction sheet. The following morning at 0930 hours, by recorded delivery, appeared the instruction sheet. The following morning at 0930 hours, by recorded delivery, appeared in the instructions it then took me 25 minutes to complete the upgrade from a hesitant start to a successful test run.

## Campbell Systems (Masterfile 8000)

This experience was a combination of the above two, pleasant, courteous and extremely helpful. Again a Credit Card order, but I could have been paying in gold! It did not make any difference to the firm. My Masterfile 8000 was dispatched the same day as my call and took 4 days to arrive.

Too many people have had, or read about, bad experiences when dealing with firms and I think its about time that the good firms got a mention. The only reason I contacted these particular firms was that you had covered their products in 8000 Plus. G M Burley

G M Burley Bordon Hants

It's good to hear a few compliments in amongst the brickbats. As ever, it's only a small minority of companies which give the whole industry a bad name.

#### My kingdom for a dressing gown

I had occasion to write to you some weeks ago about Hitchhiker's Guide to the Galaxy and thank you for your reply.

My problem now is that, after many an unsuccessful try, I am still stuck in the room and my score sheet reads: You have scored 0 out of a possible 400 in 19 moves!

I am a complete tyro with these games but I have enlisted the help of game-crazy young acquaintances, still with no success. Roger J Flavell Wolverhampton

It's all to do with how much you had to drink the previous night, and how you cope with it. See the letter from the Elf.

#### Writing companion Having just read your review of Companion, I would like to make a

few comments.

While the review is generally

fair and factually correct it only covers half the product, the memory resident utilities. While I accept that the non-resident utilities are slow to start by comparison with the resident utilities, this is surely not reason enough to almost completely omit them from the review. I would like to point out some of

the features that the reviewer missed. Firstly, all non-resident utilities (notepad, phonebook, diary/calendar) have WordSrar style cursor movement and editing facilities as well as search for first and search for next features. They all allow the user to have multiple files so that you are not restricted to those supplied. You are able to print the contents of any page of text, a feature which is particularly useful in the phonebook as, once located, any entry may be printed directly as an address label. The diary/calendar utility provides a calendar and diary up to the year 2000 with a separate page for each day. There are many other features I could mention but I think I have made my point.

The minuses you give at the end of the review include the following Takes up over 3k of CP/M's workspace - might inconvenience some programs.

The PCW has 6 lk of memory in which to run CP/M programs, all CPM are grams that I know th

# Nik Sen Digital Integration Camberley

Companion is sold heavily on the fact that it will run while other programs are in use. As such, to have to swap discs to load many of its features seems to detract from it's general usefulness.

The easiest application to think of that Companion could inconvenience is Mallard BASIC, which has less than 32K available to it before you've written a line of program. Any other language would be similarly restricted.



"SORRY - CAN'T GIVE YOU MY PHONE NUMBER-IT'S PROTECTED WHOER THE DATA PROTECTION ACT"

# The HAMstrad

I have sent this letter to you, asking very much for your help. My hobby is Amateur Radio, it has been for many years. I have just put the AMSTRAD PCW8256 into my room, this was to help me log all past work also future work. But I am in rooble with this equipment. I have a support of the property of t

do this, do you know any one who will. I have also sent you a sheet from a Amateur log, to show you what I need

All I want is the log on the screen, be able to fill it up, enter it onto the Disc. The screen clear, then another log comes onto the screen, ready to fill, etc, etc. This would go on until the Disc was full.

When this Disc is full I can put it in to bring back the logged sheets, one sheet, press return (or) any key, for the second sheet, etc. etc.

Well this is what I require from you (or) any one who can do this for me, I do need this program very much, and I am asking for help. You see it will only be a couple of years, before I will not be able to hold pers very well. I hope you know what I mean, this is the reason for the computer.

18ail

#### Henbury Bristol

This is an ideal job for LocoScript templates. Set up a template to represent your blank logging form, and insert a unit marker (by using the "UT sequence) at every point where you'll want to enter values into into the log.

When you want to start a new log, create a document on the group in which you defined the template and press [SHIFT][UNT] to move to the first unit marker you defined. You can save the log to disc at any stage and reload it later. When it's full, it is a simple matter to create another log with the same template.

#### **I SUBmit**

Is there any way of clearing the screen from within a .SUB file? Having cleared the screen, is there any way of turning off the screen willst files are being transferred from the A drive to the M drive? Having done that, is there any way of writing a message to the screen along the lines of 'Please wait whilst your program is loaded?'

You may be able to guess from from that I am far more familiar with MS-DOS than with CP/M. Is there a book that you would recommend about CP/M+ and how do I get hold of a copy? CF Ingrams Stamford

You can clear the screen, and turn it off (or at least set the foreground colour to black), by typing control sequences at the A> prompt, and these codes can be incorporated into a SUB file. Remarks can be added by preceding them with a semi-colon (j.). These will appear on the screen, as long as you haven't

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turned it off, of course. The codes

EXIT E - clears screen EXIT H - home cursor

It's easiest to use PIP to create such a submit file, as it will allow you to enter the EXIT codes directly. If you want to avoid CP/M's '?' response to these unfamiliar commands, put them all in a small text file, and TYPE that text file from within the submit file.

Istill haven't read more comprehensive books on CP/M than CP/M The Software Bus and The Amstrad CP/M, both by Andrew Clarke and David Powys-Lybbe. Neither is particularly accessible to the first time user, though (which doesn't include you, by the sound of it).

#### Absolute bounder

I recently purchased the brilliant game, Bounder by Gremlin Graphics, I can get to the second screen with no problem but always die halfway through it. I am getting very frustrated, because it says in the scrolling messages at the bottom of the screen, after telling you what the control keys are, THERE IS A CHEAT MODE" and I have tried pressing all sorts of keys on the keyboard and I can't find this cheat mode. Please could you tell me what this cheat mode is and I'm sure many 'Bounder' fans would be very happy and relieved. Andrew English Nuneaton Warks

The answer to this one has been kindly supplied by Y. Unterman, from Cheadie in Chestive. All(!) you have to do is press the keys Q.W.E.R.T.Y.A.S.D.F.G.H.Z.X.C.V. B.N simultaneously. From then on, as Y says—E. Then—You will never lose your balls when you really should! And it does work, though you have to have big hands.

#### The NewWord flasher

The New Ord Tlasher
There are always two sides to
every argument and I was
fascinated to read Peter
Philippson's letter 'lin praise of
WordStar'. I too have tried
New Word but in contrast, despite
its many advantages I cannot get to
like it. Ironically the thing which
annoys me the most is that the
cursor does not flash. Whenever I
ry New Word I can never find
where I am in the document.
Strange, it just goes to show that
one man's meat can be another
mans poison.

One final point that perhaps you could help me with regarding my favourite software, LocoScript I First with the news

I wish to make a very strong protest about your sale policy. I admit that you are by no means the only culprits, but I have to start with a magazine that I read. It is probably sheer lack of thought, never the less you are guilty of extreme bad manners, back stabbing, and virtual theft. Besides speeding the loss of another traditional Birtish Institution.

Six months ago you released your first issue, through newsagents, and you continue to do so. May lask you why we newsagents should bother to stock your magazine? You never asked us if we wanted it. Now you have the audacity to speak on our behalf. Page 5 of this month's issue has a banner across the page "Give your newsagent a break - subscribe". Later on you offer incentives of free or cheaper goods for being a subscriber. You don't bother to mention that the newsagent, who put you on the map, will lose his profit each time

someone decides to subscribe. That eventually, in the not too distant future, it won't be worth stocking magazines or newspapers. You don't point out that newsagents don't go on strike, as do printers and postmen. You ignore the fact that a less cost than your postage and packing the

newsagent will also deliver to their I will consult you. Would you consider it reasonable to put a proposal before the next national conference of the Newsagents Federation to the effect that all members should cease to stock any magazine that in any way advertises the reduction of the newsagents business? Your answer should be most interesting. Not only to the newsagents who support you but also to the general public who are already losing newsagents shops and will continue to do so in ever increasing numbers

Is there any possibility that you will dare to publish this letter or

should I pay to have it published as an advert?

Roger L Paton Leeds

While I will admit that the banner was ill-mannered, I think you rather over-stress your case. It is certainly true that most copies of 8000 Plus are distributed via newsagents, but we do pay heavily for this distribution, and naturally wish to increase our subscriptions as direct mailing of magazines is far

more economical.

Your assertion that it's only newagents which keep magazine in business works both ways. Without the thousands of titles published regularly in the UK, there would be very little for more agents one ell limagine 2000 per business of the published regularly in the title for the control of the control of

often find when typing a list in the middle of the page that despite being lined up on the screen, when printed out the start of the line will be one or more characters out. The supplier of my Amstrads, I have one at home and one at work, are no help but there must be an answer somewhere!

Thanks for a great magazine, keep it up. Bernard Chater Leek Staffs

Peter Philippson's letter headed 'In praise of WordStar' is not only likely to start a long and intense controversy but possibly even civil war!

I agreed with every word of David Langford's article and rushed round the office showing it to everyone who would look at it as final proof that my lack of success with Wordstar was not the fault of the operator. If anything, he did not find for a chough in his condemnation of this intensely frustrating package.

Whether one uses the E-S-D-X diamond or the arrows keys to move about the screen, one cannot move directly vertically up and down it. The cursor will position itself at the beginning of a line or the end of a paragraph or anywhere but the place immediately above or below its current position. In non-document mode, the frequency with which one has to reform a document which has galloped off the edge of the screen has only one redeeming feature - one rapidly learns

'Control B' if nothing else.

Frankly, I can find nothing good to say about WordStar and as for using it on my Amstrad – Well, words fail me.

Mrs A J Wilkinson Ashford Kent

The flashing/non-flashing cursor argument has been raging for nearly as long as word processors have been on the go. Those against have quoted the increased incidence of epileptic attacks as one reason for reflusing to use

programs with the flashing variety. The 'let's go back to the lefthand margin' problem is not quite as bad as Mrs Wilkinson makes out. The cursor will travel directly up or down the screen through text, only moving left if the end of the line is to the left of the current cursor position. If you're trying to add text to the end of a paragraph this is exactly what you want.

#### Partial theft I can't write this letter on my

PCW8512 because a walk-in office thief stole my printer. Amstrad won't sell a printer on its own, so my PCW is completely useless to me.

Does anyone have a spare printer? (No questions asked!).
And to the thief - may all your data discs lose their address markspermanently.
Miss JA Barrie
London SW9

Presumably the thief has a spare

printer (perhaps he had his nicked). Why else should he leave the rest of the PCW?

#### Random query

Is there any way to make the PCW turn out better random numbers? I have had a number of computers over the years and all but Joyce have been able to turn out at least reasonable random numbers. But the PCW!!

Mr B J Ford

#### Mr B J Ford Redruth, Cornwall

The random number generator used by Mallard is no worse than most, but you can seed it with one of 60 numbers from the system clock with the command RANDOMIZE PEEK (64504!).

This stops the chain of numbers repeating every time you run the program.

#### On no account

I would like to comment on your Good Software File in which you reviewed Camsoft PSIL accounts software. Having purchased this and discovered the severe drawbacks associated with the application of V.A.T. to invoices, I feel this should be made known to other prospective purchasers.

other prospective purchasers. Firstly if you sell goods or services with differing VAT rates (currently 0% and 15%) this system will not cope, as you cannot mix VAT rates on the same invoice. Secondly if you export and sell in the U.K., again the invoicing

system cannot cope as you cannot have two rates on the same item.

Another problem with this system is that you have to have different supplier reference numbers between the Stock Control module and the Purchase modulo

Any advice you or your readers can give particularly in overcoming the VAT problems would be appreciated

GI Kinnaird Alice's Shop Products Ltd. Oxford

Cambrian software say that their PSIL accounts software has offered multi-rate VAT on invoices for a considerable time, and that it is possible to use the same supplier reference numbers between modules. They can only imagine that you have a very old version of the software. If you contact them. you should be able to arrange an

#### Colossal problems?

This may sound stupid, but I have various adventure games both for my PCW8S12 and my CPC6128 and I am useless at them. I never know what to tell the computer to do apart from NORTH, SOUTH, etc. I type help and usually get 'I CAN'T HELP AT THIS POINT' or something like it, the instructions with the games go into no great detail, and I an fed up with it. Sometimes I stumble over things and manage to pick them up and that's as far as I get. The arcade games I have no trouble with as I can see what to do. Have you any ideas which would help me? Alison Wibon

Stanley Common Derbys

Adventures definitely have a particular kind of mind. They're often good at mathematical problems, and nearly always good at logic and 'lateral' thinking. You really have to get hooked on one and appreciate the mind of the person who developed the puzzles. before you can start solving them. If you're still stuck, read on.

am writing in reply to the letter published in issue six of 8000 Plus from Mac Daley of Oxford. To get through the catacombs in Leather Goddesses of Phobos he should follow the instructions given by the Professor in the comic

accompanying the game. These are 'clap your hands at least once every five minutes', 'hop once every nine minutes' and 'say KWEEPA every eleven minutes'. It is then a simple matter of following the map, being careful not to get lost due to some

tunnels having caved in since the man was drawn!

Mac and your other readers may be interested to know that I run an adventure help club. To join simply send an s.a.e. to me and in return I will send you some more information and a clue sheet consisting of hints for all the popular programs. Members also get a free Adventure telephone hotline, a newsletter each month and the promise that the Elf always delivers. Membership is free so there is nothing to lose. The Fif

26 The Gap Marcham Abingdon Oxon OX13 6NI

Add to that list of what adventurers are 'They are also extremely philanthropic souls'.

#### Loco review

Your review of Anglo Computer's Loco Print was quite enthusiastic so, having trust in your judgement. I immediately bought this utility over the phone. What a let down. Apart from crashing after a ( BOLD) it did not do what I wanted

Luse Proportional Spacing on my JUKI 6100. For the start of tabular work I wish to go out of PS into 12cpi; then for normal work back to PS - hopeless.

I returned it all to Anglo Computing asking them for a refund. I have not yet heard from them. I am going to hound then until I get it.

Please could you ensure that your reviewers conduct tests on a rather less superficial level both to keep your reputation and to save your readers' nerves Adam Hardiman Main Consultants Ltd

It was clearly stated in the review of Loco Print that there were problems with Proportional Spacing, particularly when trying to

right-justify or centre text. The software didn't crash at any time during the period of the review, so there was no way we could have reported it.

Which guide

London

Having struggled with Basic from Book 2, PCW82S6/8S12, Third Edition 1986 (Cost £9.95), 1 latched on to W H Black's letter in you March issue, 'Which guide', After telephoning Amsoft for confirmation, I sent off my cheque for £S with my order for a copy of Guide to Mallard BASIC and waited

Lo and behold, today I have received, what? - Book 2 PCW8256, 1985 Edition (Two editions earlier than the one I already have). Presumably it's the one I should have received with my PCW8S12 if they had not decided to leave it out to save money. So, I now have two copies of Book 2, but still no copy of Guide to Mallard BASIC

Please, how can I get a copy of Guide to Mallard BASIC if it is not the same thing as Book 2, BASIC Manual? Your editorial comment to Mr Black's letter indicated that there are two

different books Peter Stapleford Cockwood Devon

When we published the reply to Mr Black, we too believed there were two distinct hooks on the subject, being sold at different prices. It now appears, however, that both are basically (sic) the same, though Locomotive's has been undated since the PCW launch, while Amstrad's hasn't. Sorry if we've created any confusion.

A plea for Fairlight My dad says that if I can solve the excellent game 'Fairlight'. I can get the game of my choice (which is

'Hitchhikers Guide To The Galaxy'.

Therefore I would hope that you would be kind enough to put an advertisement in your brilliant magazine to find someone who is in the same position as me so that we can help each other to solve the

Callum Sinclair 51 Ballater Drive Paisley PA2 7SH

Fine, but who gets to keep Hitchhikers?

New clock program

Am I being naive in thinking that computers are meant to enhance our lives and work for us, not vice vers of After LOGO CLOCK comes

LOGO CLOCK 2 which, wait for it, has an hour hand that moves and is accurate to 30 seconds in two hours and can function as a stop watch (albeit a large one). Can I suggest LOGO CLOCK 3?

10 GO TO SHOP 20 BUY CHEAP WATCH 30 PUT WATCH ON WRIST

Sorry about the syntax! S Beetlestone

Maidenhead

Some people would say you've missed the point. It's not the result that's most of interest, but how you can coax Logo to produce it.

## Words and logos

I am a mature student at the local Polytechnic, with several essays to write per term, all of which are supposed to be 2000-2500 words in length, so you can appreciate what a difference a word-count would make to me.

Incidentally I am studying computers and children as part of my course and have been playing

with Dr.Logo. Do you know of any reason why the command 'towards in ml', when supplied with coordinates does not turn the turtle towards those coordinates. as it is supposed to, but instead prints a number on the text screen?

Chris Newton Barking Essex

You only have to ask: WORD COUNTER

10 INPUT "File name"; files 20 OPEN "I",1,file\$ 30 PRINT 40 word%=0: line%=0 50 WHILE NOT EOF(1) 60 inword%=0: tine%=tine%+1 70 LINE INPUT #1, lines 80 PRINT CHR\$ (13): "Line": Line%: 90 FOR i=1 TO LEN(line\$) 100 cs=MIDs(lines,i,1)
110 IF cs=" " AND inword% THEN word%=word%+1:

inword%=0

120 IF c\$<>" " THEN inword%=-1 130 NEXT i 140 IF inword% THEN word%=word%+1 150 WEND

160 PRINT: PRINT 170 PRINT word%;" words counted in ";file\$ 18Ø CLOSE

We've no idea why 'towards' doesn't work, and can only assume that the PCW version of DR Logo doesn't implement it properly.

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